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May 20, 2010

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MAY 25 2010

ECEJ

Linda Jacobson (2 Copies)
RCRA Project Manager
US EPA Region VIII
8ENF-T
1595 Wynkoop Street
Denver, Colorado 80202-1129

Betsy Burns (1 Copy)
Environmental Protection Specialist
EPA Region VIII
Montana Office
10 West 15th St., Suite 3200
Helena, MT 59626

RE: Consent Decree Civil Action No. CV 98-3-H-CCL East Helena Site
Work Performed in late April 2010 and early May 2010; Progress Report #136

Dear Linda and Betsy:

On May 5, 1998, ASARCO and the United States Environmental Protection Agency (EPA) entered into a Consent Decree (the Decree) to further the objectives of the Resource Conservation and Recovery Act (RCRA) and the Clean Water Act (CWA). On December 9, 2009, the Montana Environmental Custodial Trust (the Custodial Trust) was established as part of the larger ASARCO bankruptcy settlement agreement approved by the Bankruptcy Court (SD, Texas) and the US Federal District Court (SD, Texas). A Consent Decree and Settlement Agreement regarding Montana Sites (the Settlement Agreement) was entered into by ASARCO, US Department of Justice (DOJ), US Environmental Protection Agency (EPA), the State of Montana (the State) and the Montana Environmental

Trust Group, LLC, not individually, but solely in its representative capacity as Trustee for the Montana Environmental Custodial Trust. The Settlement Agreement describes the role and responsibilities of the Custodial Trust, which include owning, managing, and overseeing the clean-up and revitalization of ASARCO's property in East Helena, Montana (the Site). The United States and the State of Montana are the two designated beneficiaries of the Custodial Trust.

Pursuant to the Settlement Agreement, a motion to reopen the Decree and substitute the Custodial Trust for ASARCO was granted by the US Federal District Court in January 2010. As of the date of this report, EPA, DOJ and the Custodial Trust are in the process of finalizing a First Modification to the Decree that will conform to the terms of the Settlement Agreement. The Custodial Trust submits this progress report under the Decree subject to and pending the finalization of the First Modification to the Decree. Nothing herein, or in the substitution, should be interpreted or construed to constitute an unqualified acceptance of the terms of the Decree by the Custodial Trust or a waiver or release of its right to a modification of the Decree consistent with the Settlement Agreement. The Custodial Trust reserves all rights to object to those parts of the Decree that it reasonably believes are inconsistent with the Settlement Agreement. As with this report, future progress reports prescribed by the Decree, as so amended, will be submitted to EPA by the Custodial Trust.

Section XII of the Decree (Reporting: Corrective Action) requires submittal of certified monthly progress reports to EPA to describe the actions taken to achieve compliance with the Decree. The reports are to be submitted to EPA no later than the twentieth (20th) day of the subsequent month. The following describes those activities that have occurred or are related to activities that took place during late April and early May of 2010. As to actions performed by ASARCO, the Custodial Trust's predecessor-in-interest, the descriptions are based on information and belief only. The historical steps taken to achieve compliance with the Decree are contained in previous monthly progress reports.

- a. **Describe the actions, progress, and status of projects which have been undertaken pursuant to Part VII of the Decree.**

2009 Cleaning and Demolition Work Plan

On April 14, 2010, Cleveland Wrecking Company's sub-contractor, Northwest Lining and Geotextile initiated repairs to the liner areas damaged during 2009 demolition activities and resumed completing unfinished work. The repairs and completion work were finished on April 23, 2010.

RCRA Facility Investigation (RFI) Phase II Site Characterization and Risk Assessment Work Plans

1. Installation of Piezometers/Staff Gages and Water Level Monitoring

Groundwater and surface water level monitoring was initiated in April 2010 under three separate programs or “time-critical” tasks, including: the Groundwater/Surface Water Interaction Task (the GW/SW Interaction), the Supplemental Groundwater Level Monitoring Task (the Supplemental GW Levels); and the Southwest Lamping Field Groundwater Evaluation Task (the SW Lamping Field). The GW/SW Interaction and SW Lamping Field tasks are included in the Phase II RFI Site Characterization Work Plan. The Supplemental GW Levels task was added as a time-critical task to obtain continuous data regarding trends in water level fluctuations (hydrographs) between various surface water features and groundwater throughout the project area.

The piezometer and staff gage installation was completed and water level monitoring initiated in April 2010. The water level monitoring program (which encompasses the three tasks described above) includes sampling 42 sites – 13 for surface water sites and 29 for groundwater sites. Of the 29 groundwater sites, 20 are pre-existing monitoring wells and nine are piezometers installed in March/April 2010 specifically for the GW/SW Interaction task. Of the 42 sites, 17 have been instrumented with automated water level and temperature recording devices (transducers) programmed to record data at four-hour intervals. Water levels at the remaining 25 sites were manually recorded. The 42 monitoring sites are listed in Table 1 according to the specific monitoring program, along with a site description and dates the manual water level measurements were taken in April 2010. Monitoring locations are also shown on attached Figure 1. On April 21, 2010 the newly installed piezometers and staff gauges were surveyed for horizontal and vertical control. The following summarizes April’s activities for each program.

2. Supplemental Groundwater Level Monitoring Program (Supplemental GW Levels)

The Supplemental Groundwater Level program includes 7 wells, which are listed on Table 1 and shown on Figure 1. Each well is instrumented with a transducer that measures the water level in the well continuously, every four

hours. In addition, static water levels of these wells were collected on April 7, April 15, and May 5, 2010. Transducer data was downloaded on April 15 and May 5, 2010 and corrected for barometric pressure readings, collected by a barologger installed in APSD-8. The corrected data is shown in Figure 2. Water levels in these seven wells did not change significantly over this period.

3. Groundwater/Surface Water Interactions Study (GW/SW Interaction)

The GW/SW Interaction study includes 11 wells, 11 piezometers, and 11 surface water sites (Table 1, Figure 1). Static water levels and staff gauge readings at these sites were collected on April 8, April 15, and May 5, 2010. Of particular interest is the area between Lower Lake and Prickly Pear Creek (PPC), and the interaction of groundwater and surface water in this area. Piezometers have been installed at two locations within the PPC hyperemic zone (IP-102 and IP-103), and between the creek and Lower Lake (PZ-102 and PZ-103), with the piezometers located in line with monitoring wells APSD-7 and APSD-8 (Figure 1). In-stream piezometers (IP-102 and IP-103) are paired with surface water sites (PPC-102 and PPC-103) to determine if and when PPC is gaining or losing water through this reach. All of these sites are instrumented with transducers. The pressure-corrected data from these sites is included in Figure 3. The data show that groundwater levels are generally higher than the corresponding creek levels, indicating the stream is recharged by groundwater in this area. However, this relationship reverses when the stream stage rises rapidly due to snowmelt runoff, as shown between 4/22/2010 and 4/23/2010 on Figure 3.

4. Southwest Lamping Field Groundwater Evaluation (SW Lamping Field)

The SW Lamping Field groundwater evaluation includes monitoring wells EH-128 and EH-132, which have exhibited elevated arsenic concentrations in groundwater since they were installed in the spring 2009 (Table 1, Figure 1). Both wells are instrumented with transducers measuring water levels every four hours. In addition, static water levels of these wells were collected on April 7, April 15, and May 5, 2010. The barometric pressure-corrected transducer data for these wells is included in Figure 4. As shown on Figure 4, water levels in these wells have been relatively stable to date. Of particular interest is the groundwater level response to the onset of flow in nearby Wilson Ditch. As of May 5, 2010 (when the transducers were last downloaded), there was no flow in the ditch. The ditch rider reported that the Wilson Ditch headgate was opened on May 17, 2010. The data collected to date will serve as background information for comparison to water levels once Wilson Ditch receives flow.

In summary, the water level data collected to date provides valuable background or baseline information for comparison to water levels to be recorded during spring runoff and Wilson Ditch flow. The information already collected in the vicinity of PPC and Lower Lake indicates that PPC is a gaining stream in this reach, except during periods of high stream stage resulting from runoff. The water level data will continue to be collected through the summer of 2010 and evaluated on a monthly basis.

5. Monitoring Well Drilling and Sampling

Three additional monitoring wells were installed in April 2010 to evaluate the groundwater quality upgradient of Seaver Park and downgradient of the former City of East Helena Landfill. Borehole drilling and monitoring well construction was conducted by Environmental West, using a B90 air rotary (Tubex) drill rig. Hydrometrics provided oversight during the drilling and construction of the monitoring wells. Drill cuttings and split spoon samples were used to log the subsurface lithology at each boring location. Each well was developed, following completion, by surging the well and pumping at least 10 well volumes out of the well. Well completion details are summarized in Table 2, and well logs are included as Attachment 1.

TABLE 2. WELL COMPLETION DETAILS

Monitoring Well	Completion Date	MP Elevation (feet)	Total Depth Cased (ft, bgs)	Screen Interval (ft, bgs)	Sand Pack (ft, bgs)	SWL (ft, bmp)	SWL Elevation (feet)
EH-200	4/12/10	3950 ¹	48	38-48	35-51	30.38	3920
EH-201	4/13/10	3970 ¹	119	99-119	96-119	100.00	3870
EH-202	4/13/10	3926.95	90	70-90	67-90	62.19	3864.76
PZ-36C	4/14/10	3855.88	25	20-25	17-25	18.39	3837.49

¹MP Elevation was taken with GPS, precision of +/- 1-foot.

Drilling commenced on April 12, 2010 at the western most location (EH-200) on the R&D Property. The drilling program proposed installing paired wells at this location (and other locations), however, only one water bearing zone (40-42 feet) was encountered at this location. Therefore, only one well was completed. The

boring was continued to a depth of 100 feet, and no additional water bearing zones were encountered. Bedrock was encountered at approximately 74 feet. Monitoring well EH-200 was completed at 48 feet, with ten feet of screen and a sand pack from 35 to 51 feet. The borehole was backfilled with bentonite from 51 to 100 feet.

Following completion of EH-200, the drilling rig was mobilized to the second location on R&D Property (EH-201). Drilling of the borehole for EH-201 began on April 12, 2010. The borehole was advanced to 120 feet. Drill cuttings were slightly moist to moist from 88 to 120 feet. After pulling out the drill stem and cleaning out the casing however, the well made a small amount of water. Due to the lack of any water bearing zones in the shallower sediments, only one well (EH-201) was completed at this location. Well EH-201 was completed on April 13, 2010 with 20 feet of screen (99 to 119 feet) and sand pack from 96 to 119 feet.

The downgradient landfill well (EH-202) was completed on April 13, 2010. The borehole was drilled to a total depth of 90 feet. Drill cuttings had varying amounts of moisture from 56 to 85 feet with water being encountered at approximately 85 feet. The well was completed with 20 feet of screen from 70 to 90 feet, and a sand pack from 67 to 90 feet. Only one well was proposed for this location.

The drilling program proposed installing paired wells upgradient of the landfill. However, due to the projected depth (>130 feet) of the water table and the drill rig depth limitations (120-130 feet), the decision was made to defer drilling the upgradient landfill well until the next phase of drilling slated to commence in the next several weeks. At this time, a drill rig capable of depths greater than 200 feet will be utilized.

A fourth well (piezometer PZ-36C) was installed on April 14, 2010 near the synoptic stream gage station PPC-36A. This piezometer was proposed to be installed using a direct push drill rig. However, the direct push rig encountered refusal at depth shallower than the water table. PZ-36C was drilled to a total depth of approximately 25 feet, and completed with 15 feet of screen (20-25 feet) and a sand pack from 17-25 feet.

The three new wells installed upgradient of Seaver Park (EH-200 and EH-201) and downgradient of the former East Helena Landfill (EH-202) were sampled on

April 16, 2010 for rush analyses of dissolved arsenic and selenium. Table 3 lists the April arsenic, selenium and field parameter results.

TABLE 3. UPGRADIENT MONITORING WELL DATA

<u>Well</u>	EH-200	EH-201	EH-202
Water Level Measuring Point Elevation (Ft)	3950	3970	3926.93
Depth to Groundwater (Ft)	30.41	99.34	62.85
Groundwater Elevation (Ft)	3919.59	3870.66	3864.08
pH (S.U.)	7.53	7.51	7.51
Specific Conductance (microm/cm)	649	557	480
Dissolved Oxygen (mg/L)	8.06	6.89	6.15
Water Temp (C°)	10	12.7	12.4
Arsenic (ppb)	8.0	5.0	16.0
Selenium (ppb)	2.0	2.0	2.0

6. Corrective Action Management Unit (CAMU)

The liner and sandbag damage identified on the CAMU Phase 2 cell temporary liner was repaired by Cleveland Wrecking Company's sub-contractor, Northwest Lining and Geotextile during the second half of April 2010.

From April 20, 2010 through May 3, 2010, approximately 58,500 gallons of water was pumped from the CAMU Phase 2 cell leachate collection sump. The leak detection sump continued to have zero flow, although a small amount of water (3-4 inches) is present in the bottom of this sump.

7. RI/FS Long-Term Monitoring Program

On May 3, 2010, EPA provided comments for reducing the number of groundwater monitoring wells being sampled in May 2010 under the RI/FS Long-Term Monitoring Program. EPA has requested that further refinements and finalization to the RI/FS Long-Term Monitoring Program for the remainder of calendar year 2010 will be described in a revised monitoring plan. On April 2, 2010, the monthly sampling of select residential groundwater wells, as prescribed in the 2009 Groundwater and Surface Water Sampling and Monitoring Plan (the May 2009 GW/SW Plan), was conducted. Copies of the

April 2010 residential well notification letters, along with the corresponding laboratory analytical reports are attached to this monthly progress report.

On April 14, 2010, the residential well located at 2840 Winslow Avenue Seaver Park, which is owned by Rogge Eiler and supplies water to both the 2840 Winslow Avenue and 2830 Winslow Avenue homes, was sampled. The results of this analysis along with the correspondence to Mr. Beckman (the owner of the 2840 Winslow Avenue property) and Mr. Eiler are attached to this monthly progress report.

A summary of the correspondence and data transmitted as part of the East Helena Consent Decree in late April 2010 and early May 2010 is included in Attachment I.

- b. **Identify any requirements under the Part VII of the Decree that were not completed in a timely manner, and problems or anticipated problem areas affecting compliance with the Decree.**

There were no requirements that were not completed in a timely manner nor were there problems or anticipated problem areas that may affect compliance with the Decree.

- c. **Describe projects completed during the prior month, as well as activities scheduled for the next month.**

In accordance with the 2006 Interim Measures Work Plan Addendum, Final Cleaning, Soil Sampling, Backfilling, and Interim Cap Work Plan and the 2006 Interim Measures Work Plan Addendum, Former Acid Plant Sediment Drying Area Slurry Wall, Monitoring, Operation, and Maintenance Work Plan, six areas on site where interim caps have been installed¹ are being inspected on a monthly basis. These monthly inspections were expanded to include areas where above-grade demolition activities were conducted under the 2008 Interim Measures Work Plan and the 2008 and 2009 Cleaning and Demolition Project Work Plan. The most

¹ The four areas include: the former acid sediment drying area; the dross plant, breaking floor, and CSHB areas; sinter plant, crushing mill, sample mill, and acid plant dust; the acid plant gas cleaning and areas; blast furnace flue, Monier flue, and blast baghouse; and the thaw house.

recent inspections occurred on April 5, 2010. Liner and sandbag repairs on identified interim cap areas were completed on April 23, 2010.

In accordance with the July 2000 CAMU Design Analysis Report (Operation and Maintenance Plan), the CAMU Phase 1 cell is being inspected monthly. The most recent inspection occurred on April 1, 2010. Inspections of the CAMU Phase 2 cell temporary cover are conducted on a weekly basis. Liner and sandbag repairs on CAMU Phase 2 cell temporary cover were completed on April 23, 2010. The monthly and weekly inspections confirm that the CAMU Phase 1 and Phase 2 cells are operating as designed.

During the remainder of May 2010, certain residential and public water supply system wells identified in the RI/FS Long-Term Monitoring Program will be sampled. Select residential wells in the Seaver Park subdivision will be sampled. Additional planned activities for May 2010 include (1) planning and coordination for drilling of additional upgradient monitoring wells; (2) continued bi-weekly groundwater and surface water level monitoring for the GW/SW Interaction activities, Supplemental GW Levels program, and the SW Lamping Field groundwater evaluation; (3) finalize Phase II RFI Site Characterization Work Plan and associated addendum documents pursuant to the EPA's Conditional Approval Letter of March 24, 2010 and subsequent 30-day extension; (4) sampling of selenium plume front wells EH-126, EH-129, EH-130, and EH-134; and (5) initiate groundwater level monitoring and water quality data compilation from private wells at Seaver Park and surrounding area. The post-RI/FS water sampling event scheduled for May 2010 has been delayed until June or July to coincide with the completion of additional upgradient monitoring wells.

d. Describe and estimate the percentage of studies completed.

The following projects or studies are 100% complete:

- Pump and treat pilot scale testing for source area reduction of groundwater contamination;
- Jar testing (Phase I) of the East Helena PRB materials testing program;
- Slurry wall construction in the former acid plant sediment drying area;
- Interim capping project for the following areas:
 - former acid plant sediment drying area
 - dross area

- sinter plant area
 - gas cleaning and contact sections of the acid plant
 - thaw house
 - blast furnace baghouse
 - blast furnace flue
 - Monier flue
 - sample mill
 - crushing mill
 - hopper pad
 - storage bins and gallery
 - acid dust facility
 - sinter stocking building
 - highline railroad
 - abandoned and new breaking floor buildings
 - groundwater sump
 - sinter plant, acid plant, and blast furnace baghouse stacks.
 - January 2008 CAMU Phase 2 Cell Design Analyses, CAMU Phase 2 cell construction, and placement of 2008 and 2009 wastes within the CAMU Phase 2 cell;
 - Slurry wall construction in the former speiss-dross plant area;
 - Historic recordation tasks associated with the 2008 and 2009 Cleaning and Demolition Work Plans;
 - 2008 Interim Measures Work Plan Addendum, Blast Furnace Flue and Monier Flue Cleaning and Demolition and Demolition Footprint Exposed Areas Soil Sampling obligations;
 - Submittal of the Baseline Ecological Risk Assessment Work Plan (June 2009) and Field Sampling and Analysis Plan (FSAP);
 - Submittal of the Human Health Risk Assessment Work Plan (October 2009); and
 - Submittal of the Phase II RCRA Facility Investigation Site Characterization Work Plan (September 2009).
- e. **Describe and summarize all findings to date.**
- The details of findings through early April 2010 have been described and summarized in previous monthly progress reports.
- f. **Describe actions being taken to address problems.**

There were no other actions required to address problems associated with the Decree.

g. Identify changes in key personnel during the period.

There were no significant changes in key personnel during the period.

h. Include copies of the results of sampling and tests conducted and other data generated pursuant to work performed under Part VII of the Decree since the last Progress Report. ASARCO may submit data that has been validated and confirmed by ASARCO to supplement any prior submitted data. Updated validated and confirmed data shall be included with the RFI Report, if not delivered before.

Copies of the April 2010 residential well notification letters, along with the respective laboratory analytical reports are attached to this monthly progress report.

Two validation packages entitled "*Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, Monthly Residential Well Monitoring Program Inorganic Analyses, April 2010 Sample Event*" and "*Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, Private Well Sampling Program, Inorganic Analyses, April 2010 Special Sampling Event for 2840 Winslow Avenue*" are attached to this monthly progress report.

i. Describe the status of financial assurance mechanisms, including whether any changes have occurred, or are expected to occur which might affect them, and the status of efforts to bring such mechanisms back into compliance with the requirements of this Decree.

The Custodial Trust received funds for Environmental Actions earmarked for site clean-up in connection with the ASARCO bankruptcy settlement. The Custodial Trust deposited the funds in a segregated East Helena Clean-up account and is investing and managing the funds in accordance with the provisions of the Settlement Agreement.

Montana Environmental Trust Group, LLC (METG)

East Helena Site Work Performed in late April 2010 and early May 2010; Progress Report #136

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Please do not hesitate to call me with any questions pertaining to this transmittal.

Sincerely,

A handwritten signature in black ink that reads "Cynthia Brooks". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Montana Environmental Trust Group, LLC

Trustee of the Montana Environmental

Custodial Trust

By: Greenfield Environmental Trust Group, Inc.,

Member

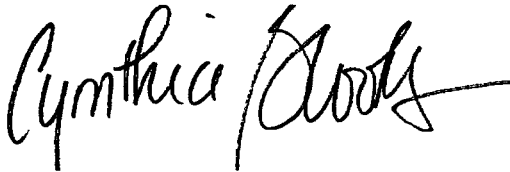
By: Cynthia Brooks, President

Attachments

cc: Denise Kirkpatrick—MDEQ

CERTIFICATION
PURSUANT TO U.S. v ASARCO INCORPORATED
(CV-98-3-H-CCL, USDC, D. Montana)

I certify under penalty of law that this document, late April early May 2010 Progress Report and all attachments, were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.



Signature: _____

Montana Environmental Trust Group, LLC,

Trustee of the Montana Environmental Custodial Trust

By: Greenfield Environmental Trust Group Inc., Member

By: Cynthia Brooks, President

Date: May 20, 2010

ATTACHMENT 1
SUMMARY OF CORRESPONDENCE
LATE APRIL 2010 AND EARLY MAY 2010 PROGRESS REPORT
CONSENT DECREE: EAST HELENA SITE

DATE SENT	SENT FROM	SENT TO	SUBJECT	RESPONSE
Attached to This Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	April 2010 Residential Well Notification Letters/Results	No Formal Response Required
Attached to This Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, Monthly Residential Well Monitoring Program Inorganic Analyses, April 2010 Sample Event	No Formal Response Required
Attached to This Monthly Progress Report	Cynthia Brooks	Linda Jacobson and Betsy Burns	Validation Summary, Montana Environmental Trust Group, LLC, East Helena Plant RCRA Consent Decree, Monthly Residential Well Monitoring Program Inorganic Analyses, April 2010 Special Sampling Event for 2840 Winslow Avenue	No Formal Response Required

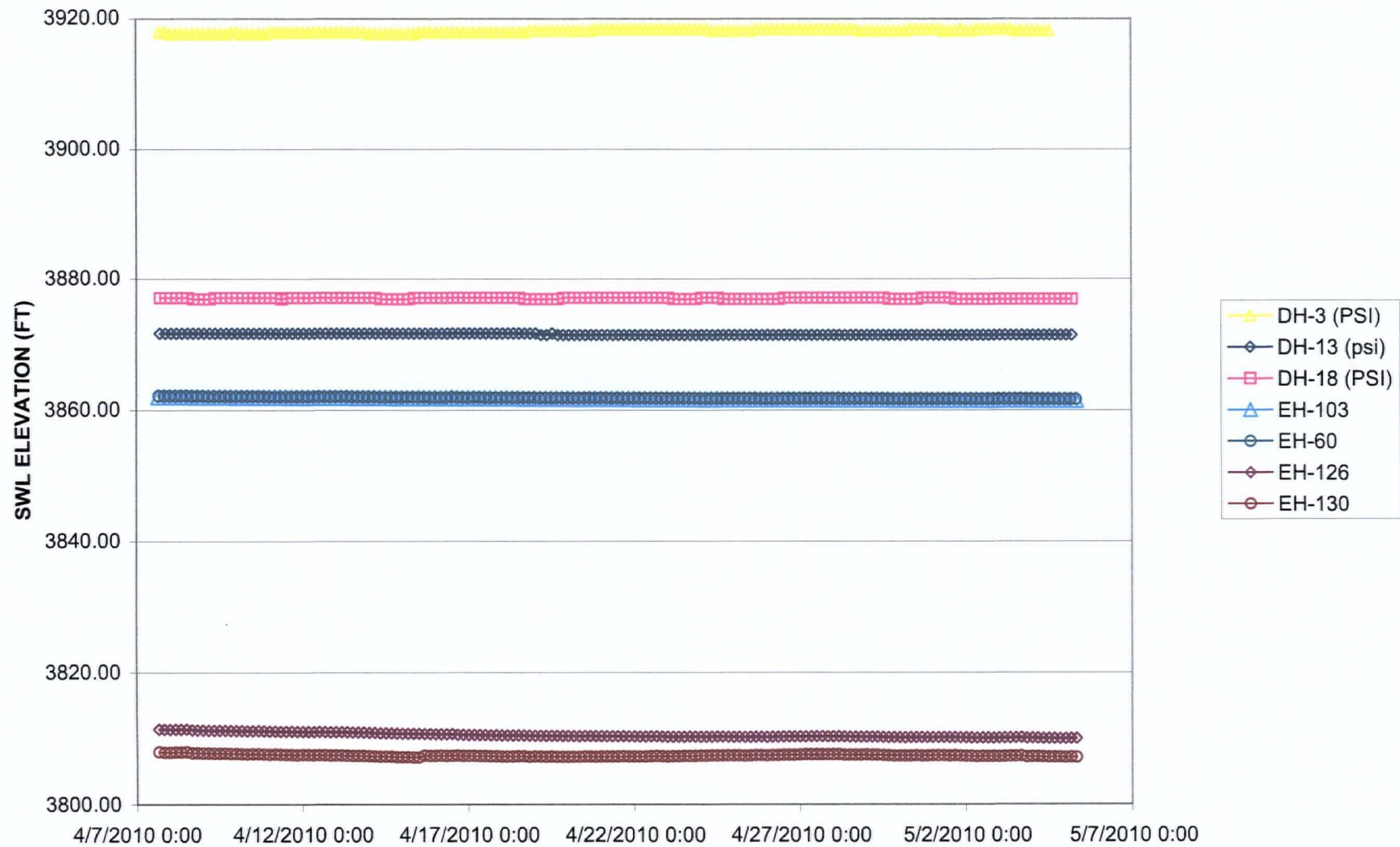
TABLE 1 - GROUNDWATER LEVEL/SURFACE WATER STAGE MONITORING EAST HELENA MONTANA

Site	Type	Transducer? Y/N	Site Description/Location	Manual Water Level Measurement Dates			
				4/7/2010	4/8/2010	4/15/2010	5/5/2010
Supplemental Groundwater Level Monitoring Program							
DH-18	Monitoring Well	Y	Plant site well installed in deep aquifer. Paired with DH-13	X		X	X
DH-13	Monitoring Well	Y	Plant site well installed in shallow aquifer. Paired with DH-18	X		X	X
DH-3	Monitoring Well	Y	Upgradient well completed in tertiary sediment groundwater.	X		X	X
EH-126	Monitoring Well	Y	Lamping Field wells to provide SWL data near selenium plume front.	X		X	X
EH-130	Monitoring Well	Y		X		X	X
EH-60	Monitoring Well	Y	Town of East Helena wells to determine vertical gradients in area of highly stratified water quality.	X		X	X
EH-103	Monitoring Well	Y		X		X	X
Groundwater/Surface Water Interaction Study							
APSD-8	Monitoring Well	Y	Between Lower Lake and PPC close to Lower Lake	X	X	X	X
IP-102	Instream Piezo	Y	Adjacent to PZ-102 and paired with PPC-102	X	X	X	X
PZ-102	Piezometer	Y	Between Lower Lake and PPC close to PPC	X	X	X	X
PPC-102	SW Stage	Y	In-stream upstream of PPC-103 and below Upper Lake	X	X	X	X
APSD-7	Monitoring Well	Y	Between Lower Lake and PPC close to Lower Lake		X	X	X
IP-103	Instream Piezo	Y	Adjacent to PZ-103 and paired with PPC-103		X	X	X
PZ-103	Piezometer	Y	Between Lower Lake and PPC close to PPC	X	X	X	X
PPC-103	SW Stage	Y	In-stream upstream of dam and below Lower Lake	X	X	X	X
Upper Lake	SW Stage	N	On Plant Site at Pump Station		X	X	X
Lower Lake	SW Stage	N	On Plant Site at Pump Dock		X	X	X
DH-11	Monitoring Well	N	Between S. Montana and PPC, directly east of Slag Pile		X	X	X
PPC-5	SW Stage	N	In-stream west of DH-11 and east of Slag Pile		X	X	X
DH-7	Monitoring Well	N	Between Highway 12 and NE corner of Slag Pile		X	X	X
PZ-33A	Piezometer	N	Between DH-7 and NE corner of Slag Pile		X	X	X
PZ-33B	Piezometer	N			X	X	X
PPC-33A	SW Stage	N	In-stream at NE corner of Slag Pile		X	X	X

TABLE 1 - GROUNDWATER LEVEL/SURFACE WATER STAGE MONITORING EAST HELENA MONTANA

Site	Type	Transducer	Site Description/Location	Manual Water Level Measurement Dates			
				4/7/2010	4/8/2010	4/15/2010	5/5/2010
Groundwater/Surface Water Interaction Study (continued)							
DH-53	Monitoring Well	N	Between PPC and North Side of Slag Pile		X	X	X
DH-10A	Monitoring Well	N	Between PPC and North Side of Slag Pile west of DH-53		X	X	X
PPC-7	SW Stage	N	Downstream of W. RR bridge abutment south of Highway 12 and North of Slag Pile		X	X	X
EH-54	Monitoring Well	N	North of Gail Street between Cleveland and Morton		X	X	X
PPC-8	SW Stage	N	North of intersection of Gail St and Morton St.		X	X	
EH-122	Monitoring Well	N	North of Clarkco Storage paired with EH-67	X	X	X	X
EH-67	Monitoring Well	N	North of Clarkco Storage paired with EH-122	X	X	X	X
PZ-36A	Piezometer	N	Northeast of Clarkco Storage and east of EH-67 and EH-122	X	X	X	X
PZ-36B	Piezometer	N		X	X	X	X
PZ-36C	Piezometer	N				X	X
PPC-36A	SW Stage	N	In-stream directly east of PZ-36A,B,and C	X	X	X	X
EH-131	Monitoring Well	N	On north side of PPC directly north of Lamping Field	X	X	X	X
PPC-37A	SW Stage	N	West of EH-131 in main channel.	X	X	X	X
EH-127	Monitoring Well	N	South of PPC in Lamping Field directly west of Wiley Drive bridge.	X	X	X	X
PZ-9A	Piezometer	N		X	X	X	X
PZ-9B	Piezometer	N		X	X	X	X
PPC-9A	SW Stage	N	On Southwest abutment of Wiley Drive Bridge.	X	X	X	X
Southwest Lamping Field Groundwater Evaluation							
EH-128	Monitoring Well	Y	Southwest corner of Lamping Field in area of elevated arsenic	X		X	X
EH-132	Monitoring Well	Y	Southwest corner of Lamping Field in area of elevated arsenic	X		X	X

Figure 2. SUPPLEMENTAL GROUNDWATER LEVEL MONITORING PROGRAM



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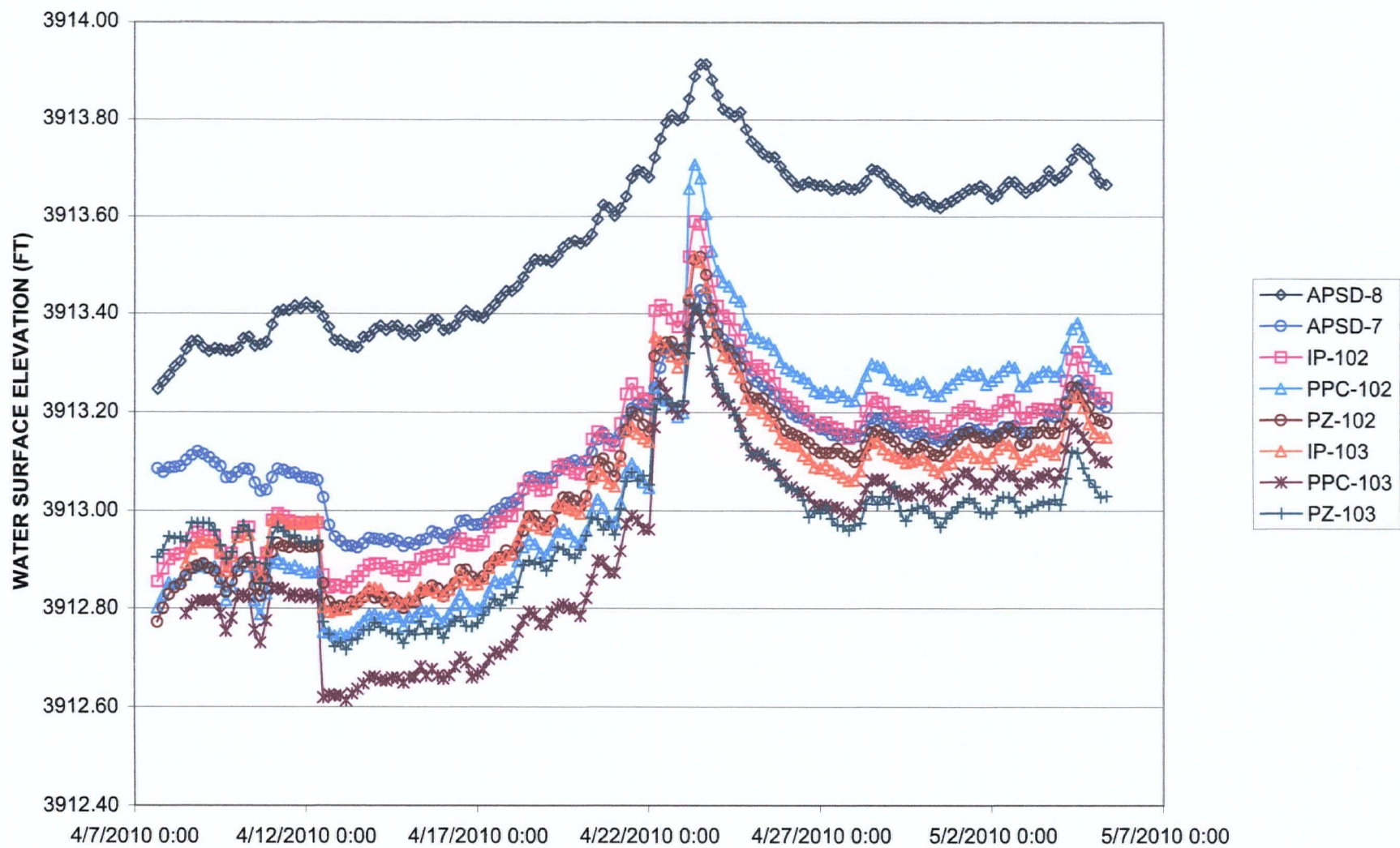
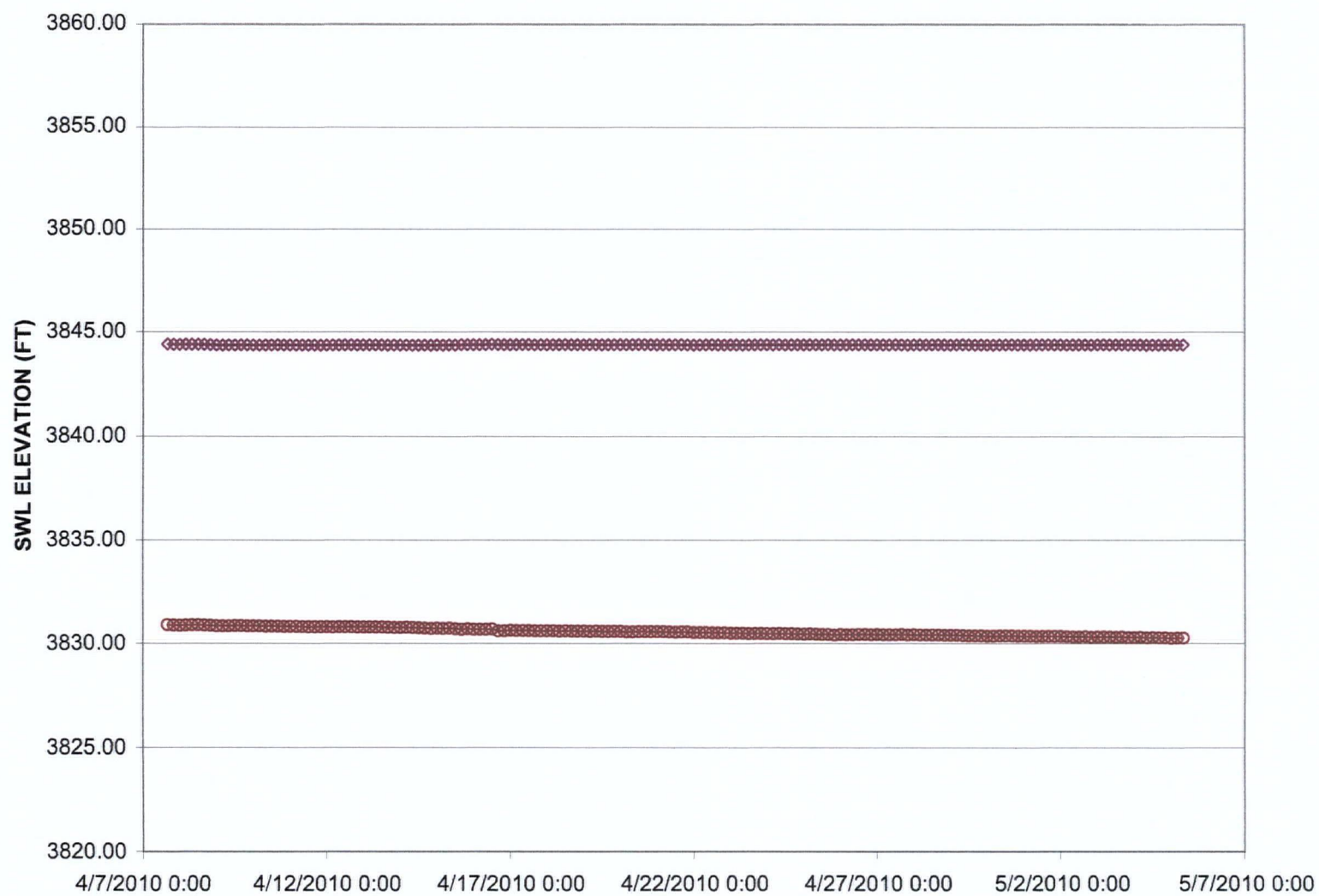


FIGURE 4. SOUTHWEST LAMPING FIELD GROUNDWATER EVALUATION



Hydrometrics, Inc.

Consulting Scientists and Engineers

Helena, Montana

Monitor Well Log

Hole Name: EH-200

Date Hole Started: 4/12/2010 Date Hole Finished: 4/12/2010

Client: Montana Environmental Trust Group
Project: East Helena Facility
County: Lewis & Clark State: Montana
Property Owner: R&D Properties
Legal Description: NE, NW, SEC35, T10N, R3W
Location Description:

Recorded By: Greg Bryce

Drilling Company: Environmental West

Driller: Randy Wilder

Drilling Method: Air Rotary (Tubex)

Drilling Fluids Used: Air

Purpose of Hole: Monitoring Well

Target Aquifer: First Water

Hole Diameter (in): 6"

Total Depth Drilled (ft): 100

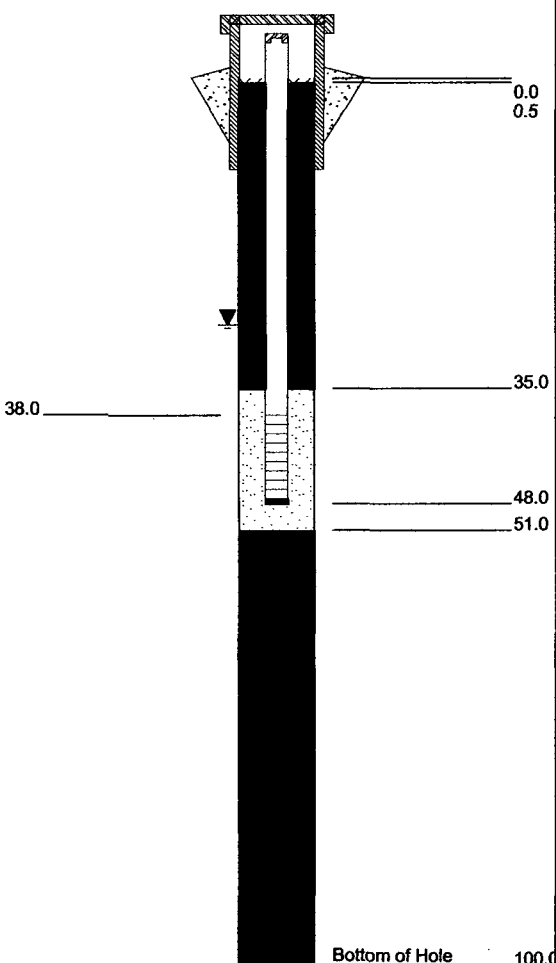
WELL COMPLETION	Y/N	DESCRIPTION	INTERVAL
Well Installed?	Y	2-inch, flush threaded, Sch 40, PVC	+2.5 - 48'
Surface Casing Used?	Y	6-inch steel	+2.6 to -2.4
Screen/Perforations?	Y	0.010-inch slot, Sch 40, PVC	38 - 48
Sand Pack?	Y	10/20 Silica Sand	35 - 51
Annular Seal?	Y	Bentonite Chips	0.5 - 35, 51 - 100
Surface Seal?	Y	Portland Cement	0 - 0.5

DEVELOPMENT/SAMPLING

Well Developed?	Y	Surge/Pump
Water Samples Taken?	Y	Dissolved As & Se
Boring Samples Taken?	Y	Cuttings
Northing: 12351.4	Easting: 1230.42	
Static Water Level Below MP: 30.38	Surface Casing Height (ft): 2.64	
Date: 4/13/2010	Riser Height (ft): 2.50	
MP Description: Top of PVC	Ground Surface Elevation (ft): 3952.5	
MP Height Above or Below Ground (ft): 2.5	MP Elevation (ft): 3950	

Remarks: MP Elevation was taken with GPS, precision of +/- 1-foot. Detailed survey to be completed.

WELL CONSTRUCTION



GRAPHICS

GEOLOGICAL DESCRIPTION

0.0 - 5.0' Silty Gravel Light tan, fine, subangular - subrounded gravel with 30-40% silt (possibly ash), dry.
5.0 - 10.0' Gravelly Sand Brown, poorly sorted, fine - coarse grained sand with 10 - 15% fine gravel, less gravel with depth, dry.
10.0 - 17.0' Silty Sand Tan, moderately sorted, fine to medium grained sand with 20 - 25% silt, more silt with depth to approximately 15 feet, dry.
17.0 - 22.0' Sand Brown, moderately sorted, fine to medium grained (with trace coarse) sand, trace silt, slightly moist.
23.0 - 32.0' Silt White, highly compacted silt (volcanics), dry.
32.0 - 35.0' Silty/Gravelly Sand Tan, poorly sorted, fine - coarse grained sand with 20% fine, subangular - subrounded gravel and 10% silt, dry.
35.0 - 36.0' Silty Sand Pink, poorly sorted, fine - coarse grained sand with 10 - 15% silt and 5% fine gravel (weathered argillite bedrock), dry.
36.0 - 40.0' Silt White, highly compacted silt with softer medium sand to fine gravel clasts. Wet at 40 feet.
40.0 - 42.0' Sandy Clay White, gravelly sandy clay in texture (volcanics), highly compacted, wet. Made more water from 40 - 41 feet.
42.0 - 45.0' Silt Cuttings are reddish tan, silt with trace fine gravel, dry.
45.0 - 46.5' Silty Gravel Fine - coarse angular - subangular gravel with 20% light tan silt. Wet, possibly from upper zone (40 - 42').
46.5 - 55.5' Sandy Gravelly Silt Light tan, silt with 5-10% fine, subangular to subrounded gravel and 5% fine to coarse sand, dry.
55.5 - 60.0' Gravelly Silty Sand Reddish brown, fine - coarse grained sand with 15% silt and 10% fine subangular to subrounded gravel, dry.
60.0 - 66.0' Gravelly Silty Sand Same as above.
66.0 - 69.0' Silty Sand Brown, poorly sorted, fine - coarse grained sand with 30 - 33% silt, trace gravel.
69.0 - 71.0' Silty Gravelly Sand Tan, poorly sorted, fine - coarse grained sand with 15% fine subrounded - subangular gravel and 10% silt.
71.0 - 74.0' Silty Gravelly Sand Same as above with gravel becoming more angular.

Hydrometrics, Inc.

Consulting Scientists and Engineers
Helena, Montana



Monitor Well Log

Hole Name: EH-200

Date Hole Started: 4/12/2010 Date Hole Finished: 4/12/2010

WELL CONSTRUCTION

GRAPHICS

GEOLOGICAL DESCRIPTION

74.0 - 100.0' **Bedrock**
Drilling hard, red, cuttings range from silt to gravel, gravel is all angular, possible sand lense from 86 - 90 feet, argillite, dry.

Hydrometrics, Inc.

Consulting Scientists and Engineers

Helena, Montana



Monitor Well Log

Hole Name: EH-201

Date Hole Started: 4/12/2010 Date Hole Finished: 4/13/2010

Client: Montana Environmental Trust Group

Project: East Helena Facility

County: Lewis & Clark State: Montana

Property Owner: R&D Properties

Legal Description: NE, NW, SEC35, T10N, R3W

Location Description:

Recorded By: Greg Bryce

Drilling Company: Environmental West

Driller: Randy Wilder

Drilling Method: Air Rotary (Tubex)

Drilling Fluids Used: Air

Purpose of Hole: Monitoring Well

Target Aquifer: First Water

Hole Diameter (in): 6"

Total Depth Drilled (ft): 119

WELL COMPLETION

Y/N

DESCRIPTION

INTERVAL

Well Installed?	Y	2-inch, flush threaded, Sch 40, PVC	+2.5 - 119'
Surface Casing Used?	Y	6-inch steel	+2.8 to -2.2
Screen/Perforations?	Y	0.010-inch slot, Sch 40, PVC	99 - 119
Sand Pack?	Y	10/20 Silica Sand	96 - 119
Annular Seal?	Y	Bentonite Chips	0.5 - 96
Surface Seal?	Y	Portland Cement	+0.5 - 0.5

DEVELOPMENT/SAMPLING

Well Developed?	Y	Surge/Pump	
Water Samples Taken?	Y	Dissolved As & Se	
Boring Samples Taken?	Y	Cuttings	Continuous

Northing: 11808.68

Easting: 2133.52

Static Water Level Below MP: 100.00

Surface Casing Height (ft): 2.77

Date: 4/15/2010

Riser Height (ft): 2.50

MP Description: Top of PVC

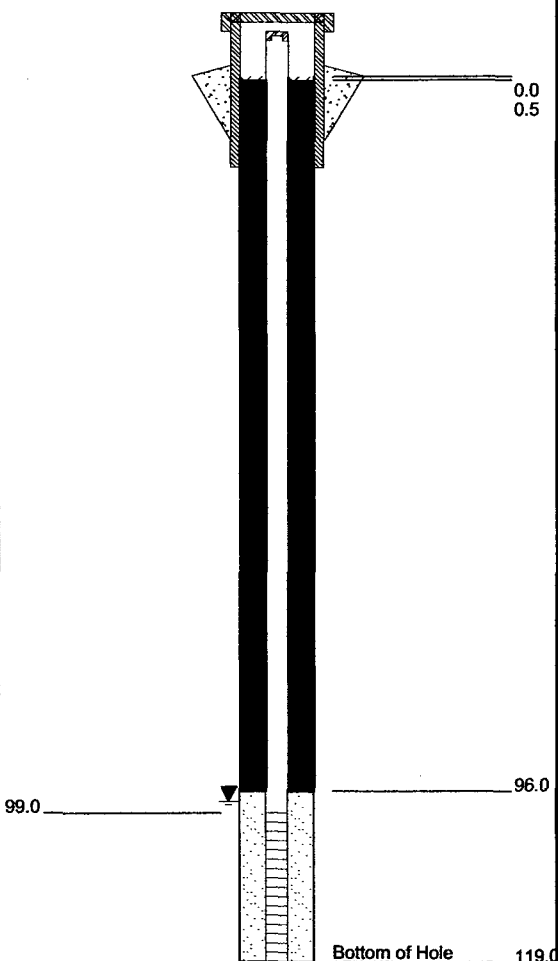
Ground Surface Elevation (ft): 3972.5

MP Height Above or Below Ground (ft): 2.5

MP Elevation (ft): 3970

Remarks: MP Elevation was taken with GPS, precision of +/- 1-foot. Detailed survey to be completed.

WELL CONSTRUCTION



GRAPHICS

GEOLOGICAL DESCRIPTION

0.0 - 4.0' Sandy Silt
Tan, non-plastic silt with 30% fine grained sand, dry.
4.0 - 10.0' Gravelly Sand
Brown, poorly sorted, fine to coarse grained sand with 10 - 15% subangular - subrounded fine gravel, trace silt, dry.
10.0 - 14.0' Gravelly Sand
Brown, poorly sorted, fine to coarse grained sand with 20 - 25% subangular to subrounded fine gravel, dry.
14.0 - 20.0' Silty Sand
Tan, well sorted, fine grained sand with 20% silt, 16 - 20 feet was lighter tan and had more clasts of white ash, mica, and black inclusions (unidentifiable), dry.
20.0 - 32.0' Silt/Sand
White/tan, well sorted fine grained sand with 40 - 50% silt, intermittent red lenses, clast of white ash and unidentifiable black inclusions present throughout, dry.
32.0 - 43.0' Sandy Silt
White, predominantly silty texture with 20 - 25% fine grained sand, drilling firm, contains significant amounts of white ash clasts and gray/black inclusions, dry.
43.0 - 44.0' Silty Sand
Greenish white, texture consists of fine grained sand with 30 - 40% silt, highly compacted (drilling firm), contains significant white ash clasts and gray/black inclusions, dry.
44.0 - 46.0' Silty Sand
Same as above, transitioning to a tan color.
46.0 - 55.0' Silty Sand
Same as above but light tan.
55.0 - 57.0' Gravelly Sand
Reddish brown, poorly sorted, fine to coarse grained sand with 5 - 10% subangular - subrounded fine gravel, dry.
57.0 - 60.0' Silty Gravelly Sand
White/green, poorly sorted, fine to coarse grained sand with 5% fine subrounded - subangular gravel and 5% silt, dry.
60.0 - 90.5' Silty Sand
Light tan, well sorted, fine grained sand with 30 - 40% silt, highly compacted, slight moisture at 88 feet.
90.5 - 94.0' Gravelly Sand
Greenish tan, poorly sorted, fine - coarse grained sand with 15% subrounded to rounded fine gravel, slightly moist.
94.0 - 99.0' Gravelly Sand
Same as above with 5% gravel.
99.0 - 102.0' Silty Gravelly Sand
Greenish tan, poorly sorted, fine - coarse grained sand with 10% silt and 5 - 15% subangular - subrounded fine gravel, more gravel with depth, moist.
102.0 - 120.0' Silty Sand
Greenish tan, fine - coarse grained sand with 20 - 25% silt and trace fine gravel. Appeared moist during drilling but made slight water after one hour.

Hydrometrics, Inc.

Consulting Scientists and Engineers

Helena, Montana

Monitor Well Log

Hole Name: EH-202

Date Hole Started: 4/13/2010 Date Hole Finished: 4/13/2010

Client: Montana Environmental Trust Group
Project: East Helena Facility
County: Lewis & Clark State: Montana
Property Owner: MT Environmental Trust
Legal Description: NW, NW, SEC36, T10N R3W
Location Description:

Recorded By: Greg Lorenson

Drilling Company: Environmental West

Driller: Randy Wilder

Drilling Method: Air Rotary (Tubex)

Drilling Fluids Used: Air

Purpose of Hole: Monitoring Well

Target Aquifer: First Water

Hole Diameter (in): 6"

Total Depth Drilled (ft): 90

WELL COMPLETION	Y/N	DESCRIPTION	INTERVAL
Well Installed?	Y	2-inch, flush threaded, Sch 40, PVC	+2.6 - 90'
Surface Casing Used?	Y	6-inch steel	+2.8 to -2.2
Screen/Perforations?	Y	0.010-inch slot, Sch 40, PVC	70 - 90
Sand Pack?	Y	10/20 Silica Sand	67 - 90
Annular Seal?	Y	Bentonite Chips	0.5 - 67
Surface Seal?	Y	Portland Cement	+0.5 - 0.5

DEVELOPMENT/SAMPLING

Well Developed?	Y	Pump/Surge
Water Samples Taken?	Y	Dissolved As & Se
Boring Samples Taken?	Y	Cuttings

Northing: 11582.6 Easting: 5277.78

Static Water Level Below MP: 62.19

Surface Casing Height (ft): 2.81

Date: 4/14/2010

Riser Height (ft): 2.62

MP Description: Top of PVC

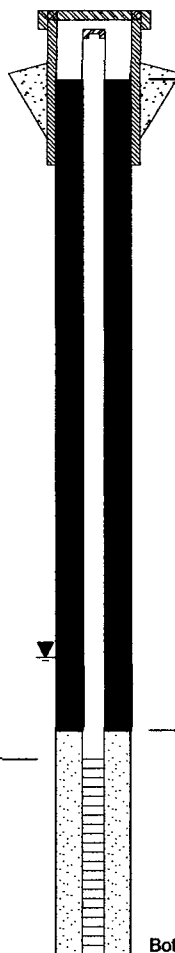
Ground Surface Elevation (ft): 3924.04

MP Height Above or Below Ground (ft): 2.62

MP Elevation (ft): 3926.95

Remarks:

WELL CONSTRUCTION



GRAPHICS

GEOLOGICAL DESCRIPTION

0.0 - 3.0' Silty Sand Tan, well sorted, fine grained sand with 45% silt, trace fine gravel, moist.
3.0 - 12.0' Gravelly Sand Tan to brown, poorly sorted, fine - coarse grained sand with 15 - 20% gravel (subangular) plus 10% fines, dry.
12.0 - 19.0' Sandy Silt Light brown, silt (plastic) with 30% very fine grained sand.
19.0 - 56.0' Gravelly Sand Tan, poorly sorted, fine - coarse grained sand with 15 - 25% fines, subangular to subrounded gravel and very little fines, small lenses (< 1-foot) of fine grained sand (reddish brown) with less than 10% gravel, dry.
56.0 - 61.0' Silty Sand Yellow/tan, poorly sorted, fine - coarse grained sand with 5 - 10% silt, slightly moist.
61.0 - 71.0' Silty Sand Brown, poorly sorted, fine - coarse grained sand with 30 - 40% silt/clay, wet at 70 feet.
71.0 - 80.0' Sandy Clay Tan, moderately plastic clay with 10 - 15%, fine grained sand, moist.
80.0 - 90.0' Clayey Sand Brown, poorly sorted, fine - coarse grained sand with 20% clay, water at 85 feet.

Hydrometrics, Inc.

Consulting Scientists and Engineers

Helena, Montana

Monitor Well Log

Hole Name: PZ-36C

Date Hole Started: 4/14/2010 Date Hole Finished: 4/14/2010

Client: Montana Environmental Trust Group

Project: East Helena Facility

County: Lewis & Clark State: Montana

Property Owner: MT Environmental Trust

Legal Description: SE, NW, SEC25, T10N, R3W

Location Description:

Recorded By: Greg Bryce

Drilling Company: Environmental West

Driller: Randy Wilder

Drilling Method: Air Rotary (Tubex)

Drilling Fluids Used: Air

Purpose of Hole: Piezometer

Target Aquifer: First Water

Hole Diameter (in): 6"

Total Depth Drilled (ft): 25

WELL COMPLETION

Y/N

DESCRIPTION

INTERVAL

Well Installed?

Y

2-inch, flush threaded, Sch 40, PVC

+2.8 - 25'

Surface Casing Used?

Y

6-inch steel

+2.8 to -2.2

Screen/Perforations?

Y

0.010-inch slot, Sch 40, PVC

20 - 25

Sand Pack?

Y

10/20 Silica Sand

17 - 25

Annular Seal?

Y

Bentonite Chips

0.5 - 17

Surface Seal?

Y

Portland Cement

+0.5 - 0.5

DEVELOPMENT/SAMPLING

Well Developed?

Y

Surge/Pump

Water Samples Taken?

N

Boring Samples Taken?

Y

Cuttings

Continuous

Northing: 14853.28

Easting: 6861.38

Static Water Level Below MP: 18.39

Surface Casing Height (ft): 2.8

Date: 4/15/2010

Riser Height (ft): 2.5

MP Description: Top of PVC

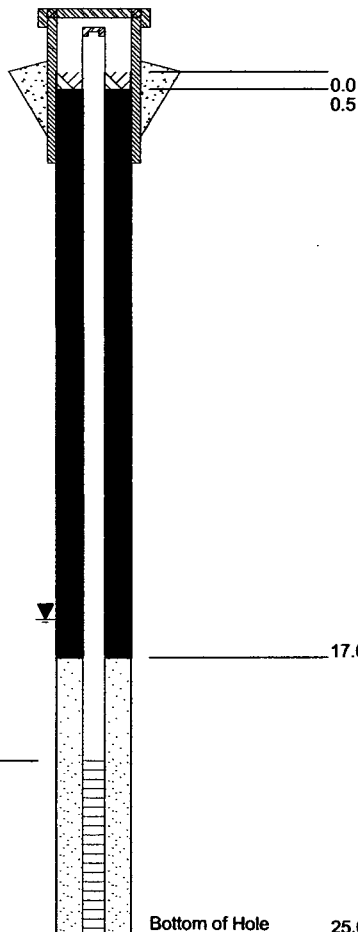
Ground Surface Elevation (ft):

MP Height Above or Below Ground (ft): 2.5

MP Elevation (ft): 3855.88

Remarks:

WELL CONSTRUCTION



GRAPHICS

GEOLOGICAL DESCRIPTION

0.0 - 15.0' Gravelly Sand

Brown, poorly sorted, fine - coarse grained sand with 30 - 35% fine - coarse, subangular to subrounded gravel, slightly moist.

15.0 - 20.0' Silty Gravelly Sand

Reddish brown, poorly sorted, fine - coarse grained sand with 20% fine - coarse, subangular to subrounded gravel and 20% silt, moist.

20.0 - 25.0' Silty Sand

Brown, poorly sorted, fine - coarse grained sand with 30% silt, 5% fine gravel, wet.

April 19 , 2010

Pat Foley
203 Gail Street
P. O. Box 2254
East Helena, Montana 59635

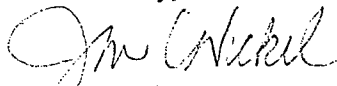
Dear Mr. Foley:

Enclosed are the analytical results for the water samples (both original and duplicate) that were collected from the 203 Gail Street ground water well on April 2, 2010. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical report. "ND" indicates that the parameter was not detected at the reporting limit.

Based on the analytical results, the water quality of the well is better than the Montana Human Health Standards and Federal Maximum Contaminant Level (MCL)/Action Levels for the constituents tested. These recent water quality results are consistent with previous monitoring data from your site and do not indicate significant changes from historical baseline data.

If you have any questions about the enclosed water quality results, please feel free to contact me at 227-4529.

Sincerely,


Jon Nickel
Consultant

Enclosures

Cc: via electronic mail:

Cindy Brooks - METG, Trustee for the Montana Environmental Custodial Trust
Marc Weinreich - METG, Trustee for the Montana Environmental Custodial Trust
Bob Anderson - Hydrometrics



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010

Client Sample ID EHR-0410-301

Foley Residence (Original Sample)

Collection Date: 04/02/10 09:00

Date Received: 04/02/10

Lab ID: H10040032-002

203 Gail Street

Report Date: 04/15/10

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	04/05/10 17:36 / hm		MAN-TECH_100405A : 14		R61360
Conductivity	279	umhos/cm		1		A2510 B	04/05/10 17:36 / hm		MAN-TECH_100405A : 13		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:51 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 6			8426
Solids, Total Dissolved TDS @ 180 C	196	mg/L		10		A2540 C	04/07/10 15:06 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 5			8424
INORGANICS											
Alkalinity, Total as CaCO ₃	78	mg/L		1		A2320 B	04/05/10 17:36 / hm		MAN-TECH_100405A : 12		R61360
Bicarbonate as HCO ₃	95	mg/L		1		A2320 B	04/05/10 17:36 / hm		MAN-TECH_100405A : 12		R61360
Chloride	4	mg/L		1		E300.0	04/06/10 22:46 / hm		IC101-H_100405A : 124		R61386
Sulfate	53	mg/L		1		E300.0	04/06/10 22:46 / hm		IC101-H_100405A : 124		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Calcium	29	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Copper	0.018	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Magnesium	7	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Manganese	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Potassium	2	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Selenium	ND	mg/L		0.001		E200.8	04/14/10 02:34 / dck		ICPMS204-B_100414A : 19		R61581
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-301
Lab ID: H10040032-002
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 09:00 **DateReceived:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	13	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:47 / sld		ICP1-HE_100407B : 16		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Zinc	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Client Sample ID EHR-0410-302 Foley Residence (Duplicate Sample) Collection Date: 04/02/10 09:20 Date Received: 04/02/10
Lab ID: H10040032-003 203 Gail Street Report Date: 04/15/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.8	s.u.		0.1		A4500-H B	04/05/10 18:00 / hm		MAN-TECH_100405A : 19		R61360
Conductivity	277	umhos/cm		1		A2510 B	04/05/10 18:00 / hm		MAN-TECH_100405A : 18		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:20 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 7			8426
Solids, Total Dissolved TDS @ 180 C	195	mg/L		10		A2540 C	04/07/10 15:07 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 7			8424
INORGANICS											
Alkalinity, Total as CaCO ₃	78	mg/L		1		A2320 B	04/05/10 18:00 / hm		MAN-TECH_100405A : 17		R61360
Bicarbonate as HCO ₃	95	mg/L		1		A2320 B	04/05/10 18:00 / hm		MAN-TECH_100405A : 17		R61360
Chloride	4	mg/L		1		E300.0	04/06/10 23:35 / hm		IC101-H_100405A : 127		R61386
Sulfate	53	mg/L		1		E300.0	04/06/10 23:35 / hm		IC101-H_100405A : 127		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Calcium	29	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Copper	0.018	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Magnesium	7	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Manganese	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Potassium	2	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Selenium	ND	mg/L		0.001		E200.8	04/14/10 02:55 / dck		ICPMS204-B_100414A : 23		R61581
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-302
Lab ID: H10040032-003
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 09:20 Date Received: 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	13	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:50 / sld		ICP1-HE_100407B : 17		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Zinc	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

April 19, 2010

John Simac
2540 Wylie Drive
P. O. Box 59
East Helena, Montana 59635

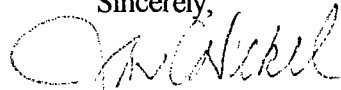
Dear Mr. Simac:

Enclosed are the analytical results for the water samples that were collected from the 2540 Wylie Drive ground water well on April 2, 2010. Your irrigation well was not in service during the sampling event. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical report. "ND" indicates that the parameter was not detected at the reporting limit.

Based on the analytical results, the water quality of the well is better than the Montana Human Health Standards and Federal Maximum Contaminant Level (MCL)/Action Levels for the constituents tested. These recent water quality results are consistent with previous monitoring data from your site and do not indicate significant changes from historical baseline data.

If you have any questions about the enclosed water quality results, please feel free to contact me at 227-4529.

Sincerely,



Jon Nickel
Consultant

Enclosures

Cc: via electronic mail:

Cindy Brooks - METG, Trustee for the Montana Environmental Custodial Trust
Marc Weinreich - METG, Trustee for the Montana Environmental Custodial Trust
Bob Anderson - Hydrometrics



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-303 Simac Residence
Lab ID: H10040032-004 2540 Wylie Drive
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 11:00 **Date Received:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.8	s.u.		0.1		A4500-H B	04/05/10 18:07 / hm		MAN-TECH_100405A : 22		R61360
Conductivity	474	umhos/cm		1		A2510 B	04/05/10 18:07 / hm		MAN-TECH_100405A : 21		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:20 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 9			8426
Solids, Total Dissolved TDS @ 180 C	347	mg/L		10		A2540 C	04/07/10 15:08 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 9			8424
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	04/05/10 18:07 / hm		MAN-TECH_100405A : 20		R61360
Bicarbonate as HCO3	140	mg/L		1		A2320 B	04/05/10 18:07 / hm		MAN-TECH_100405A : 20		R61360
Chloride	7	mg/L		1		E300.0	04/06/10 23:52 / hm		IC101-H_100405A : 128		R61386
Sulfate	120	mg/L		1		E300.0	04/06/10 23:52 / hm		IC101-H_100405A : 128		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Calcium	57	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Copper	0.002	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Magnesium	12	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Manganese	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Potassium	5	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Selenium	0.003	mg/L		0.001		E200.8	04/14/10 03:00 / dck		ICPMS204-B_100414A : 24		R61581
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-303
Lab ID: H10040032-004
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 11:00 **Date Received:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	17	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:53 / sld		ICP1-HE_100407B : 18		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Zinc	0.02	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

April 19, 2010

David Jensen
P. O. Box 1021
401 Gail Street
East Helena, Montana 59635

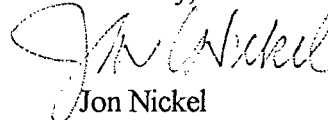
Dear Mr. Jensen:

Enclosed are the analytical results for the water samples that were collected from your 401 Gail Street ground water well on April 2, 2010. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical report. "ND" indicates that the parameter was not detected at the reporting limit.

Based on the analytical results, the water quality of the well is better than the Montana Human Health Standards and Federal Maximum Contaminant Level (MCL)/Action Levels for the constituents tested. These recent water quality results are consistent with previous monitoring data from your site and do not indicate significant changes from historical baseline data.

If you have any questions about the enclosed water quality results, please feel free to contact me at 227-4529.

Sincerely,


Jon Nickel
Consultant

Enclosures

Cc: via electronic mail:

Cindy Brooks - METG, Trustee for the Montana Environmental Custodial Trust
Marc Weinreich - METG, Trustee for the Montana Environmental Custodial Trust
Bob Anderson - Hydrometrics



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-300 Jensen Residence
Lab ID: H10040032-001 401 Gail Street
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 08:15 Date Received: 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	04/05/10 17:23 / hm		MAN-TECH_100405A : 8		R61360
Conductivity	750	umhos/cm		1		A2510 B	04/05/10 17:23 / hm		MAN-TECH_100405A : 7		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:19 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 5			8426
Solids, Total Dissolved TDS @ 180 C	564	mg/L		10		A2540 C	04/07/10 15:06 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 4			8424
INORGANICS											
Alkalinity, Total as CaCO ₃	120	mg/L		1		A2320 B	04/05/10 17:23 / hm		MAN-TECH_100405A : 6		R61360
Bicarbonate as HCO ₃	150	mg/L		1		A2320 B	04/05/10 17:23 / hm		MAN-TECH_100405A : 6		R61360
Chloride	27	mg/L		1		E300.0	04/06/10 22:30 / hm		IC101-H_100405A : 123		R61386
Sulfate	230	mg/L		1		E300.0	04/06/10 22:30 / hm		IC101-H_100405A : 123		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Arsenic	0.002	mg/L		0.002		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Calcium	95	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Copper	0.004	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Iron	0.09	mg/L		0.02		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Magnesium	21	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Manganese	0.02	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Potassium	6	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Selenium	0.022	mg/L		0.001		E200.8	04/08/10 19:07 / dck		ICPMS204-B_100408A : 84		R61467
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-300
Lab ID: H10040032-001
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 08:15 Date Received: 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	24	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:44 / sld		ICP1-HE_100407B : 15		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Zinc	0.04	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

May 12, 2010

Cliff Beckman
2840 Winslow Avenue
Helena, Montana 59601

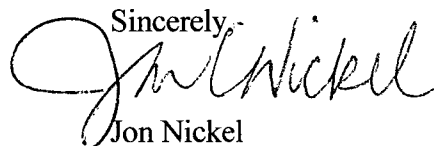
Dear Mr. Beckman:

On April 14, 2010, the Montana Environmental Trust Group, LLC. collected water quality samples from the drinking water well that service your residence located at 2840 Winslow Avenue. The samples were collected in response to your request to the United States Environmental Protection Agency (USEPA) and the Montana Department of Environmental Quality (MDEQ). I understand that the groundwater well is owned by Rogge Eiler and provides drinking water to both 2830 Winslow Avenue and 2840 Winslow Avenue.

The laboratory analytical reports from the sampling event are attached. All the results are reported in milligrams per liter, unless otherwise noted. The physical parameters are reported in the units noted on the attached laboratory analytical reports. "ND" indicates that the parameter was not detected at the reporting limit.

The samples collected at the outside spigot near the groundwater well and at your kitchen faucet show that the well's water quality meets all Montana Human Health Standards for the constituents sampled with the exception of total dissolved arsenic, which was slightly higher than the drinking water standard, as shown on the attached water quality criteria table. The Montana Human Health Standard and the Federal Maximum Contaminant Level (MCL) for arsenic is 0.010 mg/l (10 parts per billion). The arsenic tested at the outside spigot near the groundwater well was 0.016 mg/l (16 parts per billion). The arsenic tested at your kitchen sink faucet was 0.016 mg/l (16 parts per billion) for the original sample and 0.015 mg/l (15 parts per billion) for the duplicate sample. All three sets of sample results are consistent with the results obtained from the same groundwater well in July and August 2009.

To help you better understand the potential health effects of arsenic in drinking water, I have enclosed two fact sheets published by the United States Environmental Protection Agency. For more information about arsenic in drinking water, see www.epa.gov/safewater/arsenic. If you have any questions, you can reach me at (406) 227-4529.

Sincerely,

Jon Nickel

Enclosure

Cc: Rogge Eiler
Cindy Brooks, METG
Linda Jacobson, USEPA
Betsy Burns, USEPA
Denise Kirkpatrick, MDEQ
Bob Anderson, Hydrometrics



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-310 Cliff Beckman (Well Spigot)
Lab ID: H10040186-001 2840 Winslow Avenue
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:35 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	04/15/10 13:46 / hm		MAN-TECH_100415A : 9		R61643
Conductivity	576	umhos/cm		1		A2510 B	04/15/10 13:46 / hm		MAN-TECH_100415A : 8		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:14 / hm	04/15/10 14:16-124 (14410200)_100415A : 11			8492
Solids, Total Dissolved TDS @ 180 C	405	mg/L		10		A2540 C	04/15/10 14:55 / hm	04/15/10 14:15 J-124 (14410200)_100415B : 6			8491
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	04/15/10 13:46 / hm		MAN-TECH_100415A : 7		R61643
Bicarbonate as HCO3	170	mg/L		1		A2320 B	04/15/10 13:46 / hm		MAN-TECH_100415A : 7		R61643
Chloride	30	mg/L		1		E300.0	04/15/10 18:39 / hm		IC101-H_100415A : 6		R61666
Sulfate	96	mg/L		1		E300.0	04/15/10 18:39 / hm		IC101-H_100415A : 6		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Arsenic	0.016	mg/L		0.002		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Calcium	54	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Copper	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Iron	0.03	mg/L		0.02		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Magnesium	17	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Potassium	12	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Selenium	0.002	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-310
Lab ID: H10040186-001
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:35 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	35	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Vanadium	0.01	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Zinc	0.02	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604

Report RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust

Project: Residential Well Sampling - April 2010

Client Sample ID EHR-0410-311 Cliff Beckman (Kitchen Faucet Original) **Collection Date:** 04/14/10 09:50 **Date Received:** 04/14/10

Lab ID: H10040186-002 2840 Winslow Avenue

Report Date: 04/19/10

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	04/15/10 13:52 / hm		MAN-TECH_100415A : 12		R61643
Conductivity	594	umhos/cm		1		A2510 B	04/15/10 13:52 / hm		MAN-TECH_100415A : 11		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:15 / hm	04/15/10 14:16-124 (14410200)_	100415A : 13		8492
Solids, Total Dissolved TDS @ 180 C	416	mg/L		10		A2540 C	04/15/10 14:56 / hm	04/15/10 14:15 J-124 (14410200)_	100415B : 8		8491
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	04/15/10 13:52 / hm		MAN-TECH_100415A : 10		R61643
Bicarbonate as HCO3	170	mg/L		1		A2320 B	04/15/10 13:52 / hm		MAN-TECH_100415A : 10		R61643
Chloride	32	mg/L		1		E300.0	04/15/10 18:56 / hm		IC101-H_100415A : 7		R61666
Sulfate	100	mg/L		1		E300.0	04/15/10 18:56 / hm		IC101-H_100415A : 7		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Arsenic	0.016	mg/L		0.002		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Calcium	55	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Copper	0.006	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Iron	ND	mg/L		0.02		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Magnesium	17	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Potassium	12	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Selenium	0.002	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604

Report RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-311
Lab ID: H10040186-002
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:50 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	37	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Vanadium	0.01	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Zinc	0.01	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust

Project: Residential Well Sampling - April 2010

Client Sample ID EHR-0410-312 Cliff Beckman (Kitchen Faucet Duplicate)

Collection Date: 04/14/10 10:05

Date Received: 04/14/10

Lab ID: H10040186-003 2840 Winslow Avenue

Report Date: 04/19/10

Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	04/15/10 14:17 / hm		MAN-TECH_100415A : 17		R61643
Conductivity	594	umhos/cm		1		A2510 B	04/15/10 14:17 / hm		MAN-TECH_100415A : 16		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:15 / hm	04/15/10 14:16-124 (14410200)_	100415A : 14		8492
Solids, Total Dissolved TDS @ 180 C	418	mg/L		10		A2540 C	04/15/10 14:56 / hm	04/15/10 14:15-124 (14410200)_	100415B : 10		8491
INORGANICS											
Alkalinity, Total as CaCO ₃	140	mg/L		1		A2320 B	04/15/10 14:17 / hm		MAN-TECH_100415A : 15		R61643
Bicarbonate as HCO ₃	170	mg/L		1		A2320 B	04/15/10 14:17 / hm		MAN-TECH_100415A : 15		R61643
Chloride	32	mg/L		1		E300.0	04/15/10 19:45 / hm		IC101-H_100415A : 10		R61666
Sulfate	100	mg/L		1		E300.0	04/15/10 19:45 / hm		IC101-H_100415A : 10		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Arsenic	0.015	mg/L		0.002		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Calcium	54	mg/L		1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Copper	0.006	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Iron	ND	mg/L		0.02		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Magnesium	17	mg/L		1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Potassium	12	mg/L		1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Selenium	0.002	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-312
Lab ID: H10040186-003
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:05 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	36	mg/L		1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Vanadium	0.01	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Zinc	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604

Report RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-313 Field Blank
Lab ID: H10040186-004
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:30 Date Received: 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	5.4	s.u.		0.1		A4500-H B	04/15/10 14:29 / hm		MAN-TECH_100415A : 23		R61643
Conductivity	ND	umhos/cm		1		A2510 B	04/15/10 14:29 / hm		MAN-TECH_100415A : 22		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:16 / hm	04/15/10 14:16 -124 (14410200)_100415A : 15			8492
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	04/15/10 14:57 / hm	04/15/10 14:15 -124 (14410200)_100415B : 11			8491
INORGANICS											
Alkalinity, Total as CaCO ₃	ND	mg/L		1		A2320 B	04/15/10 14:29 / hm		MAN-TECH_100415A : 21		R61643
Bicarbonate as HCO ₃	ND	mg/L		1		A2320 B	04/15/10 14:29 / hm		MAN-TECH_100415A : 21		R61643
Chloride	ND	mg/L		1		E300.0	04/15/10 20:01 / hm		IC101-H_100415A : 11		R61666
Sulfate	ND	mg/L		1		E300.0	04/15/10 20:01 / hm		IC101-H_100415A : 11		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Arsenic	ND	mg/L		0.002		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Calcium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Copper	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Iron	ND	mg/L		0.02		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Magnesium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Potassium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Selenium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-313
Lab ID: H10040186-004
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:30 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Vanadium	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Zinc	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

Federal and State Water Quality Criteria

Parameter	Montana Human Health Standard		Montana Freshwater Aquatic Life Standard		Federal MCL/ Action Level
	Ground Water	Surface Water	Chronic	Acute	
Aluminum (Al)	--	--	0.087	0.75	0.05 - 0.20*
Antimony (Sb)	0.006	0.0056	--	--	0.006
Arsenic (As)	0.01	0.01	0.15	0.34	0.010
Barium (Ba)	2	2	--	--	2
Beryllium (Be)	0.004	0.004	--	--	0.004
Cadmium (Cd)	0.005	0.005	0.0003+	0.0021+	0.005
Chromium (Cr)	0.1	0.1	--	--	0.1
Chromium (III) (Cr (III))	--	--	0.086+	1.80+	--
Chromium (VI) (Cr (VI))	--	--	0.011	0.016	--
Copper (Cu)	1.3	1.3	0.009+	0.014+	1.3
Iron (Fe)	0.3#	0.3#	1	--	0.3*
Lead (Pb)	0.015	0.015	0.0032+	0.082+	0.015
Manganese (Mn)	0.05#	0.05#	--	--	0.05*
Mercury (Hg)	0.002	0.00005	0.00091	0.0017	0.002
Nickel (Ni)	0.1	0.1	0.052+	0.469+	--
Selenium (Se)	0.05	0.05	0.005	0.02	0.05
Silver (Ag)	0.1	0.1	--	0.0041+	0.1*
Thallium (Tl)	0.002	0.00024	--	--	0.002
Zinc (Zn)	2	2	0.120+	0.120+	5*

Notes: # = narrative standard (guidance level based on Secondary Federal MCL)

+ = hardness-dependent parameter; value shown is for 100 mg/L hardness as CaCO₃

* = Secondary Federal MCL (non-enforceable guideline)

Montana criteria based on Circular DEQ-7, February 2006 Version

Federal criteria obtained from <http://www.epa.gov/safewater/contaminants/index.html#listmcl>

VALIDATION SUMMARY
MONTANA ENVIRONMENTAL TRUST GROUP, LLC
EAST HELENA PLANT RCRA CONSENT DECREE
PRIVATE WELL SAMPLING PROGRAM

INORGANIC ANALYSES

APRIL 2010 SPECIAL SAMPLING EVENT FOR
2840 WINSLOW AVENUE

ENERGY LABORATORY WORK ORDER NO.
H10040186

Prepared for:
Mr. Marc Weinreich
Montana Environmental Trust Group
15001 Winged Bluff Lane
Draper, UT 84020

Prepared by:
Linda L. Tangen
6900 Cherry Blossom Lane
Albuquerque, NM 87111

April 2010

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GLOSSARY OF TERMS

(Not all of these acronyms may be used in this document)

CLP.....	Contract Laboratory Program
COC.....	Chain of Custody
CRDL.....	Contract Required Detection Limit
DI.....	Deionized Water
DIS.....	Dissolved
DQO.....	Data Quality Objective
ELI-Hel	Energy Laboratories, Inc., Helena, Montana
EPA.....	U.S. Environmental Protection Agency
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
LCS.....	Laboratory Control Sample
LFB.....	Laboratory Fortified Blank
MS	Matrix Spike
METG	Montana Environmental Trust Group, LLC
NA	Not Applicable
PDLG.....	Project Detection Limit Goal
QC	Quality Control
RCRA	Resource and Conservation Recovery Act
RPD	Relative Percent Difference
SC	Specific Conductivity
TDS	Total Dissolved Solids

SUMMARY

By special request, water samples were collected from the residence at 2840 Winslow Avenue in East Helena, Montana on April 14, 2010. This water is supplied by a groundwater well located at 2830 Winslow Avenue. Therefore, the site code used for these samples is 2830 Winslow. These samples were collected according to the U.S. Environmental Protection Agency's (EPA) Resource and Conservation Recovery Act (RCRA) Consent Decree Monitoring Program (ASARCO 2009), which is administered by the Montana Environmental Trust Group, LLC (METG). Inorganic constituents for these samples were validated using EPA guidelines for data validation (EPA 2004) and the project work plan (ASARCO 2009). Samples were analyzed by Energy Laboratories, Inc. (ELI-Hel) in Helena, Montana, under work order HI004032.

The validated database is located in Appendix 1. Field notes, chain of custody forms, and laboratory reports are located in Appendices 2, 3, and 4, respectively.

Data quality objectives for this project are as follows:

- **Precision** is determined by field and laboratory duplicate sample results that are within control limits. The completeness objective for precision is 90% of the duplicate sample results within control limits. **This objective was met as 100% (33 out of 33 results) of the field duplicate and 100% (34 out of 34 results) of the laboratory duplicate results were in control limits. The overall precision was calculated at 100% (67 out of 67 results).**
- **Accuracy** is determined by laboratory control sample (LCS) and matrix spike (MS) sample results that are within control limits. The completeness objective for accuracy is 90% of the LCS and MS sample results within control limits. **This objective was met as 100% (31 out of 31 results) of the LCS results and 100% (57 out of 57 results) of the MS results were within control limits. The overall accuracy was calculated at 100% (88 out of 88 results).**
- **Completeness** is calculated by the number of valid (not rejected) data per number of planned data, expressed as a percentage. The completeness goal for this project was 90%. **This goal was met as 100% (140 out of 140 results) of the planned data were analyzed and deemed valid.**

Qualified Data Summary

- No data were qualified due to this review.

Conclusion

Sample data collected in April 2010 from 2840 Winslow Avenue are deemed acceptable and can be used for the purposes they were intended. **Of the measured results, 100% (140 out of 140 results) can be used without qualification.**

Data Validation Report by: Linda L. Tangen

Client Review: Jon Nickel
Montana Environmental Trust Group

DATA VALIDATION REPORT

1. INTRODUCTION

- This validation applies to analyses for four groundwater and quality control samples collected on April 14, 2010 at 2840 Winslow Avenue in East Helena, Montana. These samples were collected by the Montana Environmental Trust Group (METG), at the request of the homeowner. Samples were analyzed by Energy Laboratories in Helena, Montana (ELI-Hel) under work order H10040032. One field blank and one field duplicate sample was included with these samples.
- Validation procedures used are generally consistent with:
 - ☒ EPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganics Data Review (EPA 2004)
 - ☒ ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan (ASARCO 2009)
 - ☐ Other
- Overall level of validation:
 - ☐ CLP
 - ☒ Standard – Field and laboratory quality control (QC) samples are reviewed; and samples associated with QC violations are flagged.
 - ☐ Visual

2. DELIVERABLES

- All laboratory document deliverables were present and accurate as specified in the CLP-Statement of Work (EPA 2001), and/or the project contract.
 - ☒ Yes
 - ☐ No
- All documentation of field procedures was provided as required.
 - ☒ Yes
 - ☐ No

3. FIELD PROCEDURES

- Samples were collected from all project-required sites.
 - ☒ Yes - see notes
 - ☐ No

Notes: By special request, water samples were collected from the residence at 2840 Winslow Avenue. This water is supplied by a groundwater well located at 2830 Winslow Avenue. Therefore, the site code used for these samples is 2830 Winslow.

- Field parameters were measured in accordance with the project work plan.
☒ Yes
☐ No
- Field instruments were calibrated daily and before measurements were collected.
☒ Yes
☐ No
- Chains of Custodies (COCs) were properly filled out and signed by the field personnel.
☒ Yes
☐ No
- Data entry into field books, on COCs, and on sample labels were accurate and complete.
☒ Yes
☐ No
- Samples were properly preserved in the field.
☐ Yes
☒ No – see notes

Notes: The samples were received by the laboratory at a temperature of 9.8°C instead of the required 4-6 °C. However, they were delivered directly from the field and did not have time to cool to the proper temperature. Therefore, the samples' quality was not affected.

4. FIELD BLANKS

Blanks: Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

Deionized water (DI), trip, rinsate, or any other field blanks have been carried out at the proper frequency (one rinsate blank and one DI blank per event).

☒ Yes
☐ No

Reported results on the field blanks were less than the Project Detection Limit Goals (PDLGs) or reporting limit.

☒ Yes
☐ No

5. FIELD DUPLICATES

Field duplicates have been collected at the proper frequency (one field duplicate per event).

☒ Yes
☐ No

Field duplicate relative percent differences (RPDs) were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within \pm the PDLG.

☒ Yes
☐ No

6. LABORATORY PROCEDURES

- **Laboratory procedures followed**

☒ CLP-Statement of Work (EPA 2001)
☐ SW-846 (EPA 1986)
☒ Methods for Chemical Analysis of Water and Wastes (EPA 1983)

- **Holding times met**

☒ Yes
☐ No

- **Consistency with project requirements**

Analyses were carried out as required by the project work plan (ASARCO 2009).

☒ Yes
☐ No

Project specified methods were used.

☒ Yes
☐ No

7. DETECTION LIMITS

- **Reporting detection limits met PDLGs.**

☒ Yes
☐ No

8. LABORATORY BLANKS

Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

- **Method blanks were prepared and analyzed at the required frequency (one per batch or one per 20 samples, whichever is greater).**

☒ Yes
☐ No

- All the analytes in the blank were less than the PDLG.

☒ Yes
☐ No

9. LABORATORY MATRIX SPIKES

- A Matrix Spike (MS) sample (pre-digestion) was analyzed at the proper frequency (one per batch and/or matrix).

☒ Yes
☐ No

- MS recoveries were within the required control limits (75-125%).

☒ Yes
☐ No

10. LABORATORY DUPLICATES

- Laboratory duplicate samples were analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).

☒ Yes
☐ No

- RPDs were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within \pm the PDLG.

☒ Yes
☐ No

11. LABORATORY CONTROL STANDARDS (LCS)

Laboratory Fortified Blanks (LFBs) were used in lieu of LCS' for metal analyses. This is acceptable for the purpose of the project.

- The reference material used for the LCS or LFB was of the correct matrix.

☒ Yes
☐ No

- LCS' or LFBs were prepared and analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).

☒ Yes
☐ No

- LCS recoveries were within the required control limits (80-120% or certified range).

 X Yes
 No

12. INTERPARAMETER COMPARISON

 X Lab pH vs. Field pH.

 X Lab Specific Conductivity (SC) vs. Field SC

 X Total Dissolved Solids (TDS) vs. Lab SC

 X Ion Balance

Notes: RPDs were used to compare associated measurements. If the RPD was greater than 20, the measurements were then compared to other analytes and/or historical data to determine if they were valid or anomalies. Following is a summary of these comparisons.

Lab pH vs. Field pH: All field and lab pH comparisons were in order (pairs had RPDs less than 20). The RPDs for pH pairs ranged from 7.1% to 8.1%, with an average RPD of 7.6%.

Lab SC vs. Field SC: All field and lab SC comparisons were had RPDs greater than 20. However, the SC results were in line with historical data and therefore, were not qualified. The RPDs for SC pairs ranged from 23.3% to 24.2%, with an average RPD of 23.7%.

TDS vs. Lab SC: The ratio of TDS to lab SC should lie between 0.55 and 0.75. In natural waters with high sulfate, the ratio may be much higher. This ratio is intended to be a check on the accuracy of the TDS and lab SC measurements. (It should be noted that these measurements are less accurate in dilute waters.) For this sampling event, the ratios were in line with historical data. All TDS/SC ratios were 0.70.

Ion Balance: All ion balances were in order (RPDs were less than 20 but preferably, less than 10). The ion balances ranged from 3.55% to 5.28%, with an average RPD of 4.64%.

13. HISTORICAL COMPARISON SUMMARY

Due to limited historical data, comparisons to this sampling event's data were not run.

14. DATA QUALITY OBJECTIVES (DQOs)

- The data quality goal was met for precision (90% of the field and laboratory duplicates were within control limits).

☒ Yes –see the following table

☐ No

Precision Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
Field Duplicates	33	0	33	100.0%
Lab Duplicates	34	0	34	100.0%
Overall	67	0	67	100.0%

- The data quality goal was met for accuracy (90% of the LCS and matrix spike results were within control limits).

☒ Yes – see the following table

☐ No

Accuracy Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
LCS' and LFBs	31	0	31	100.0%
Matrix Spikes	57	0	57	100.0%
Overall	88	0	88	100.0%

- DQO target for completeness was met (the number of valid results divided by the number of possible results is 90% or above).

☒ Yes – see the following table

☐ No

Completeness

# of Planned Measurements	Actual # of Measurements	# of Rejected Measurements	# of Valid Measurements	Completeness
140	140	0	140	100%

- Samples were qualified for QC exceedances and deficiencies.

 Yes

 X No – see the following table

Qualification of Samples

# of Measurements	# of Qualified Measurements	# Not Qualified	% Not Qualified
140	0	140	100%

15. CONCLUSION

Sample data collected in April 2010 from 2840 Winslow Avenue are deemed acceptable and can be used for the purposes they were intended.

REFERENCES

- ASARCO 2009. *ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan*. ASARCO LLC. March.
- EPA 1983. *Methods for Chemical Analysis of Water and Wastes*. United States Environmental Protection Agency. March.
- EPA 1986. *Test Method for Evaluating Solid Waste: Physical/Chemical Methods 3rd Ed. 4 Vols.* United States Environmental Protection Agency. December.
- EPA 2001. *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis*. United States Environmental Protection Agency. Document Number ILM05.2. December.
- EPA 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. United States Environmental Protection Agency. Document Number OSWER 9240.1-45. EPA 540-R-04-004. October.

APPENDIX 1
DATABASE

ANALYSES SUMMARY REPORT

East Helena Special Residential Sample for 2840 Winslow - 4/14/2010

Database: ASARCO, East Helena Plant

Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
1	Domestic Wells	2830Winslo
1	Field Quality Control	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/20/2010 12:24:13 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

East Helena Special Residential Sample for 2840 Winslow - 4/14/2010

Database: ASARCO, East Helena Plant

Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
1	H10040186-001	EHR-0410-310	4/14/2010	2830Winslo
1	H10040186-002	EHR-0410-311	4/14/2010	2830Winslo
1	H10040186-003	EHR-0410-312	4/14/2010	2830Winslo
1	H10040186-004	EHR-0410-313	4/14/2010	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/20/2010 12:24:13 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

East Helena Special Residential Sample for 2840 Winslow - 4/14/2010

Database: ASARCO, East Helena Plant

Table of Contents by Sample ID

<u>Page</u>	<u>Sample ID</u>	<u>Lab Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
1	EHR-0410-310	H10040186-001	4/14/2010	2830Winslo
1	EHR-0410-311	H10040186-002	4/14/2010	2830Winslo
1	EHR-0410-312	H10040186-003	4/14/2010	2830Winslo
1	EHR-0410-313	H10040186-004	4/14/2010	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/20/2010 12:24:13 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

East Helena Special Residential Sample for 2840 Winslow - 4/14/2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2830Winslo	2830Winslo	2830Winslo	FieldBlank
Water	SAMPLE DATE	4/14/2010	4/14/2010	4/14/2010	4/14/2010
	SAMPLE TIME	09:35	09:50	10:05	10:30
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10040186-001	H10040186-002	H10040186-003	H10040186-004
	SAMPLE NUMBER	EHR-0410-310	EHR-0410-311	EHR-0410-312	EHR-0410-313
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Field QC
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	2840 Wins/Outside	2840 Wins/Kitchen		
	REMARKS			Field Duplicate	Blank

Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	170	170	170	<1
Calcium (Ca) (DIS)	54	55	54	<1
Chloride (Cl)	30	32	32	<1
Magnesium (Mg) (DIS)	17	17	17	<1
Potassium (K) (DIS)	12	12	12	<1
Sodium (Na) (DIS)	35	37	36	<1
Sulfate (SO4)	96	100	100	<1
Total Alkalinity As CaCO3	140	140	140	<1

Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	0.016	0.016	0.015	<0.002
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	<0.001	0.006	0.006	<0.001
Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	0.03	<0.02	<0.02	<0.02
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	<0.01
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	0.002	0.002	0.002	<0.001
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	0.01	0.01	0.01	<0.01
Zinc (Zn) (DIS)	0.02	0.01	<0.01	<0.01

Physical/Field-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	10.4	8.72		
pH	8	8	8	5.4
pH (Fld)	7.38	7.45		
SC (umhos/cm at 25 C) (Fld)	456	466		
SC (umhos/cm at 25 C)	576	594	594	<1

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Special Residential Sample for 2840 Winslow - 4/14/2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	2830Winslo	2830Winslo	2830Winslo	FieldBlank
Water	SAMPLE DATE	4/14/2010	4/14/2010	4/14/2010	4/14/2010
	SAMPLE TIME	09:35	09:50	10:05	10:30
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10040186-001	H10040186-002	H10040186-003	H10040186-004
	SAMPLE NUMBER	EHR-0410-310	EHR-0410-311	EHR-0410-312	EHR-0410-313
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Field QC
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION	2840 Wins/Outside	2840 Wins/Kitchen		
	REMARKS			Field Duplicate	Blank

Physical/Fld-Lab: ppm unless noted

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	405	416	418	<10
Water Temperature (C) (Fld)	12.1	11.9		

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

APPENDIX 2
FIELD NOTES

APRIL 14, 2010		EHR-0410-310
SPECIAL RESIDENTIAL WELL SAMPLE		ph 7.38 SU
2840 WINSLOW AVENUE, SEAWER PARK		CONDUCTIVITY 456 $\mu\text{mhos/cm}$
REQUESTED BY EMA, APPROVED BY TRUSTEE		D.O. 10.40 mg/L
		TEMP 12.1°C
FIELD STANDARDIZATION OF HORIBA		SAMPLES COLLECTED FROM OUTSIDE WATER
		SAGOT ADJACENT TO ROGGE EILER WELL
		HEAD.
ph	4.00 SU	4.00 SU
CONDUCTIVITY	4480 $\mu\text{mhos/cm}$	4470 $\mu\text{mhos/cm}$
SALINITY	0.23‰	0.23‰
CLIFFORD BECKMAN		EHR-0410-311 (ORIGINAL)
2840 WINSLOW AVENUE 227-5024		ph 7.45 SU
BECKMAN WATER IS DRAWN FROM ROGGE		CONDUCTIVITY 466 $\mu\text{mhos/cm}$
EILER WELL. EILER WELL SAMPLED IN		D.O. 8.72 mg/L
SUMMER 2009. MR. BECKMAN CONTACTED		TEMP 11.9°C
EMA TO REQUEST THAT A SAMPLE BE		SAMPLE COLLECTED FROM MR. BECKMAN'S
COLLECTED FROM WELL WATER TO DETERMINE		KITCHEN SINK TAP
IF GOLDFISH DEATHS AND 2 CAT'S URINARY		EHR-0410-312 (DUPLICATE)
INFECTIONS WERE RELATED TO DRINKING		
WELL WATER. MR. BECKMAN PURCHASED		
BOTTLED WATER FOR HIS CATS, WHICH CORRECTED		
THE INFECTIONS. FISH TANK WAS QUITE TURBID		
WITHOUT FISH SURVIVING.		
MR. EILER WAS PRESENT DURING THE INITIAL		
DISCUSSION BUT LEFT BEFORE SAMPLES WERE		
COLLECTED. MR. BECKMAN HAD COPY OF MR. EILER'S		
SUMMER 2009 RESID. CASH LETTER, AND EMA FACT		
SHEET FOR PET OWNERS. MR. BECKMAN WAS		
SCHEMATIC OF FACT SHEET.		
		EHR-0410-313 FIELD BLANK

APPENDIX 3
CHAIN OF CUSTODIES



Chain of Custody and Analytical Request Record

Page 1 of 1

PLEASE PRINT- Provide as much information as possible.

Company Name: MONTANA ENVIRONMENTAL TRUST GROUP		Project Name, PWS, Permit, Etc. RESIDENTIAL WELL SAMPLING - APRIL 2010		Sample Origin State: MT		EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>												
Report Mail Address: P.O. BOX 1230 EAST HELLENA, MT 59635		Contact Name: JOE NICKEL		Phone/Fax: (406) 227-4529		Email:												
Invoice Address:		Invoice Contact & Phone:		Purchase Order:		Quote/Bottle Order:												
Special Report/Formats – ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC		Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other	ANALYSIS REQUESTED										SEE ATTACHED Normal Turnaround (TAT)	RUSH	Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page		Shipped by: Hand Del. Cooler ID(s): _____	
															Comments:		Receipt Temp: 9.8 °C On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody Seal: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Bottles/Coolers: B C Intact: Y N Signature Match: Y N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX											LABORATORY USE ONLY			
1 EHR-0410-310 RAW		4/14/2010	9:35	GW	X	X											X	X
2 EHR-0410-310 METAL			9:35															
3 EHR-0410-311 RAW			9:50		X	X												
4 EHR-0410-311 METAL			9:50															
5 EHR-0410-312 RAW			10:05		X	X												
6 EHR-0410-312 METAL			10:05															
7 EHR-0410-313 RAW			10:30		X	X												
8 EHR-0410-313 METAL			10:30															
9																		
10																		
Custody Record MUST be Signed		Relinquished by (print): JOE NICKEL		Date/Time: 4/14/2010 11:30		Signature:		Received by (print):		Date/Time:		Signature:						
		Relinquished by (print):		Date/Time:		Signature:		Received by (print):		Date/Time:		Signature:						
		Sample Disposal: Return to Client: _____		Lab Disposal: _____		Received by Laboratory: Tracy Lavash		Date/Time: 4/14/10 11:30		Signature:								

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.

Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

APPENDIX 4
LABORATORY REPORT



ANALYTICAL SUMMARY REPORT

April 19, 2010

Jon Nickel

Montana Environmental Custodial Trust

PO Box 1230

E. Helena, MT 59635-1230

Workorder No.: H10040186

Quote ID: H493 - All Water Sampling combined

Project Name: Residential Well Sampling - April 2010

Energy Laboratories Inc received the following 4 samples for Montana Environmental Custodial Trust on 4/14/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H10040186-001	EHR-0410-310	04/14/10 9:35	04/14/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10040186-002	EHR-0410-311	04/14/10 9:50	04/14/10	Aqueous	Same As Above
H10040186-003	EHR-0410-312	04/14/10 10:05	04/14/10	Aqueous	Same As Above
H10040186-004	EHR-0410-313	04/14/10 10:30	04/14/10	Aqueous	Same As Above

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By:


Assistant Laboratory Manager - Helena

Digitally signed by

Jon Hager

Date: 2010.04.19 13:13:27 -06:00



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-310
Lab ID: H10040186-001
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:35 Date Received: 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	04/15/10 13:46 / hm		MAN-TECH_100415A : 9		R61643
Conductivity	576	umhos/cm		1		A2510 B	04/15/10 13:46 / hm		MAN-TECH_100415A : 8		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:14 / hm	04/15/10 14:16-124 (14410200)_100415A : 11			8492
Solids, Total Dissolved TDS @ 180 C	405	mg/L		10		A2540 C	04/15/10 14:55 / hm	04/15/10 14:15 J-124 (14410200)_100415B : 6			8491
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	04/15/10 13:46 / hm		MAN-TECH_100415A : 7		R61643
Bicarbonate as HCO3	170	mg/L		1		A2320 B	04/15/10 13:46 / hm		MAN-TECH_100415A : 7		R61643
Chloride	30	mg/L		1		E300.0	04/15/10 18:39 / hm		IC101-H_100415A : 6		R61666
Sulfate	96	mg/L		1		E300.0	04/15/10 18:39 / hm		IC101-H_100415A : 6		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Arsenic	0.016	mg/L		0.002		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Calcium	54	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Copper	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Iron	0.03	mg/L		0.02		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Magnesium	17	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Potassium	12	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Selenium	0.002	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-310
Lab ID: H10040186-001
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:35 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	35	mg/L		1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:19 / sld		ICP1-HE_100416A : 16		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Vanadium	0.01	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604
Zinc	0.02	mg/L		0.01		E200.8	04/15/10 07:57 / dck		ICPMS204-B_100415A : 31		R61604

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-311
Lab ID: H10040186-002
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:50 Date Received: 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	04/15/10 13:52 / hm		MAN-TECH_100415A : 12		R61643
Conductivity	594	umhos/cm		1		A2510 B	04/15/10 13:52 / hm		MAN-TECH_100415A : 11		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:15 / hm	04/15/10 14:16-124 (14410200)_100415A : 13			8492
Solids, Total Dissolved TDS @ 180 C	416	mg/L		10		A2540 C	04/15/10 14:56 / hm	04/15/10 14:15 J-124 (14410200)_100415B : 8			8491
INORGANICS											
Alkalinity, Total as CaCO ₃	140	mg/L		1		A2320 B	04/15/10 13:52 / hm		MAN-TECH_100415A : 10		R61643
Bicarbonate as HCO ₃	170	mg/L		1		A2320 B	04/15/10 13:52 / hm		MAN-TECH_100415A : 10		R61643
Chloride	32	mg/L		1		E300.0	04/15/10 18:56 / hm		IC101-H_100415A : 7		R61666
Sulfate	100	mg/L		1		E300.0	04/15/10 18:56 / hm		IC101-H_100415A : 7		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Arsenic	0.016	mg/L		0.002		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Calcium	55	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Copper	0.006	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Iron	ND	mg/L		0.02		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Magnesium	17	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Potassium	12	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Selenium	0.002	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-311
Lab ID: H10040186-002
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 09:50 **DateReceived:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	37	mg/L		1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:22 / sld		ICP1-HE_100416A : 17		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Vanadium	0.01	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604
Zinc	0.01	mg/L		0.01		E200.8	04/15/10 08:02 / dck		ICPMS204-B_100415A : 32		R61604

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-312
Lab ID: H10040186-003
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:05 **DateReceived:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	8.0	s.u.		0.1		A4500-H B	04/15/10 14:17 / hm		MAN-TECH_100415A : 17		R61643
Conductivity	594	umhos/cm		1		A2510 B	04/15/10 14:17 / hm		MAN-TECH_100415A : 16		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:15 / hm	04/15/10 14:16-124 (14410200)_100415A : 14			8492
Solids, Total Dissolved TDS @ 180 C	418	mg/L		10		A2540 C	04/15/10 14:56 / hm	04/15/10 14:15-124 (14410200)_100415B : 10			8491
INORGANICS											
Alkalinity, Total as CaCO3	140	mg/L		1		A2320 B	04/15/10 14:17 / hm		MAN-TECH_100415A : 15		R61643
Bicarbonate as HCO3	170	mg/L		1		A2320 B	04/15/10 14:17 / hm		MAN-TECH_100415A : 15		R61643
Chloride	32	mg/L		1		E300.0	04/15/10 19:45 / hm		IC101-H_100415A : 10		R61666
Sulfate	100	mg/L		1		E300.0	04/15/10 19:45 / hm		IC101-H_100415A : 10		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Arsenic	0.015	mg/L		0.002		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Calcium	54	mg/L		1		E200.7	04/16/10 10:25 / std		ICP1-HE_100416A : 18		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Copper	0.006	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:25 / std		ICP1-HE_100416A : 18		R61703
Iron	ND	mg/L		0.02		E200.7	04/16/10 10:25 / std		ICP1-HE_100416A : 18		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Magnesium	17	mg/L		1		E200.7	04/16/10 10:25 / std		ICP1-HE_100416A : 18		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Potassium	12	mg/L		1		E200.7	04/16/10 10:25 / std		ICP1-HE_100416A : 18		R61703
Selenium	0.002	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-312
Lab ID: H10040186-003
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:05 **DateReceived:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	36	mg/L		1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:25 / sld		ICP1-HE_100416A : 18		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Vanadium	0.01	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604
Zinc	ND	mg/L		0.01		E200.8	04/15/10 08:07 / dck		ICPMS204-B_100415A : 33		R61604

Report RL - Analyte reporting limit.
Definitions:

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ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-313
Lab ID: H10040186-004
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:30 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	5.4	s.u.		0.1		A4500-H B	04/15/10 14:29 / hm		MAN-TECH_100415A : 23		R61643
Conductivity	ND	umhos/cm		1		A2510 B	04/15/10 14:29 / hm		MAN-TECH_100415A : 22		R61643
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/15/10 15:16 / hm	04/15/10 14:16-124 (14410200)_100415A : 15			8492
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	04/15/10 14:57 / hm	04/15/10 14:15-124 (14410200)_100415B : 11			8491
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		1		A2320 B	04/15/10 14:29 / hm		MAN-TECH_100415A : 21		R61643
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	04/15/10 14:29 / hm		MAN-TECH_100415A : 21		R61643
Chloride	ND	mg/L		1		E300.0	04/15/10 20:01 / hm		IC101-H_100415A : 11		R61666
Sulfate	ND	mg/L		1		E300.0	04/15/10 20:01 / hm		IC101-H_100415A : 11		R61666
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Antimony	ND	mg/L		0.003		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Arsenic	ND	mg/L		0.002		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Barium	ND	mg/L		0.1		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Beryllium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Cadmium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Calcium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Chromium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Cobalt	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Copper	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Gold	ND	mg/L		0.01		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Iron	ND	mg/L		0.02		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Lead	ND	mg/L		0.005		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Magnesium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Manganese	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Mercury	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Nickel	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Potassium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Selenium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Silver	ND	mg/L		0.005		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-313
Lab ID: H10040186-004
Matrix: Aqueous

Project: Residential Well Sampling - April 2010
Collection Date: 04/14/10 10:30 **Date Received:** 04/14/10
Report Date: 04/19/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	ND	mg/L		1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Tellurium	ND	mg/L		0.1		E200.7	04/16/10 10:34 / sld		ICP1-HE_100416A : 21		R61703
Thallium	ND	mg/L		0.001		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Vanadium	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604
Zinc	ND	mg/L		0.01		E200.8	04/15/10 08:12 / dck		ICPMS204-B_100415A : 34		R61604

Report RL - Analyte reporting limit.
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 **BatchID: 8491**

Date: 19-Apr-10

Run ID :Run Order: ACCU-124 (14410200)_100415B: 1 SampType: Method Blank Sample ID: MB-8491 Method: A2540 C
Analysis Date: 04/15/10 14:52 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 2 1
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: ACCU-124 (14410200)_100415B: 2 SampType: Laboratory Control Sample Sample ID: LCS-8491 Method: A2540 C
Analysis Date: 04/15/10 14:53 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 1940 10 2000 2 97 90 110
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: ACCU-124 (14410200)_100415B: 7 SampType: Sample Duplicate Sample ID: H10040186-001ADUP Method: A2540 C
Analysis Date: 04/15/10 14:55 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 405 10 405 0 5
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: ACCU-124 (14410200)_100415B: 9 SampType: Sample Matrix Spike Sample ID: H10040186-002AMS Method: A2540 C
Analysis Date: 04/15/10 14:56 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 2340 10 2000 416 96 80 120
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 BatchID: 8492

Date: 19-Apr-10

Run ID :Run Order: ACCU-124 (14410200)_100415A: 1 SampType: Method Blank Sample ID: MB-8492 Method: A2540 D
Analysis Date: 04/15/10 15:11 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 D
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Suspended TSS @ 105 C ND 1
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: ACCU-124 (14410200)_100415A: 2 SampType: Laboratory Control Sample Sample ID: LCS-8492 Method: A2540 D
Analysis Date: 04/15/10 15:12 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 D
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Suspended TSS @ 105 C 1830 10 2000 92 70 130
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: ACCU-124 (14410200)_100415A: 12 SampType: Sample Duplicate Sample ID: H10040186-001ADUP Method: A2540 D
Analysis Date: 04/15/10 15:15 Units: mg/L Prep Info: Prep Date: 4/15/2010 Prep Method: A2540 D
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Suspended TSS @ 105 C ND 10 5
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

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Client: Montana Environmental Custodial Trust
Work Order: H10040186
Project: Residential Well Sampling - April 2010

ANALYTICAL QC SUMMARY REPORT
BatchID: R61604

Date: 19-Apr-10

Run ID :Run Order: ICPMS204-B_100415A: 8		SampType: Initial Calibration Verification Standard			Sample ID: QCS STD			Method: E200.8			
Analysis Date: 04/15/10 05:58		Units: mg/L			Prep Info: Prep Date:			Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.256	0.10	0.25		103	90	110				
Antimony	0.0498	0.050	0.05		100	90	110				
Arsenic	0.0508	0.0050	0.05		102	90	110				
Barium	0.0510	0.10	0.05		102	90	110				
Beryllium	0.0261	0.0010	0.025		104	90	110				
Cadmium	0.0264	0.0010	0.025		106	90	110				
Chromium	0.0523	0.010	0.05		105	90	110				
Cobalt	0.0526	0.010	0.05		105	90	110				
Copper	0.0526	0.010	0.05		105	90	110				
Lead	0.0511	0.010	0.05		102	90	110				
Manganese	0.257	0.010	0.25		103	90	110				
Mercury	0.00209	0.0010	0.002		105	90	110				
Nickel	0.0517	0.010	0.05		103	90	110				
Selenium	0.0509	0.0050	0.05		102	90	110				
Silver	0.0258	0.0050	0.025		103	90	110				
Thallium	0.0515	0.10	0.05		103	90	110				
Vanadium	0.0512	0.10	0.05		102	90	110				
Zinc	0.0523	0.010	0.05		105	90	110				

Associated samples: **H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B**

Run ID :Run Order: ICPMS204-B_100415A: 9		SampType: Interference Check Sample A			Sample ID: ICSEA			Method: E200.8			
Analysis Date: 04/15/10 06:03		Units: mg/L			Prep Info: Prep Date:			Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	42.5	0.10	40		106	70	130				
Antimony	0.000453	0.050									
Arsenic	0.000183	0.0050									
Barium	3.80E-05	0.10									
Beryllium	2.00E-06	0.0010									
Cadmium	0.000596	0.0010									
Chromium	0.000861	0.010									
Cobalt	0.00178	0.010									
Copper	0.00238	0.010									
Lead	8.30E-05	0.010									

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 BatchID: R61604

Date: 19-Apr-10

Run ID :Run Order: ICPMS204-B_100415A: 9	SampType: Interference Check Sample A				Sample ID: ICSA			Method: E200.8			
Analysis Date: 04/15/10 06:03	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.00242	0.010									
Mercury	4.30E-05	0.0010									
Nickel	0.00172	0.010									
Selenium	7.80E-05	0.0050									
Silver	0.000300	0.0050									
Thallium	2.30E-05	0.10									
Vanadium	0.000109	0.10									
Zinc	0.00187	0.010									

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICPMS204-B_100415A: 10	SampType: Interference Check Sample AB				Sample ID: ICSAB			Method: E200.8			
Analysis Date: 04/15/10 06:08	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	43.7	0.10	40		109	70	130				
Antimony	0.000253	0.050				0	0				
Arsenic	0.0113	0.0050	0.01		113	70	130				
Barium	3.70E-05	0.10				0	0				
Beryllium	3.00E-06	0.0010				0	0				
Cadmium	0.0113	0.0010	0.01		113	70	130				
Chromium	0.0233	0.010	0.02		116	70	130				
Cobalt	0.0242	0.010	0.02		121	70	130				
Copper	0.0239	0.010	0.02		119	70	130				
Lead	7.00E-05	0.010				0	0				
Manganese	0.0248	0.010	0.02		124	70	130				
Mercury	2.80E-05	0.0010				0	0				
Nickel	0.0241	0.010	0.02		120	70	130				
Selenium	0.0106	0.0050	0.01		105	70	130				
Silver	0.0189	0.0050	0.02		94	70	130				
Thallium	1.10E-05	0.10				0	0				
Vanadium	0.0224	0.10	0.02		112	70	130				
Zinc	0.0128	0.010	0.01		128	70	130				

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 BatchID: R61604

Date: 19-Apr-10

Run ID :Run Order: ICPMS204-B_100415A: 16	SampType: Method Blank				Sample ID: ICB			Method: E200.8			
Analysis Date: 04/15/10 06:39	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0002									
Antimony	ND	1E-05									
Arsenic	ND	5E-05									
Barium	ND	2E-05									
Beryllium	ND	1E-05									
Cadmium	ND	1E-05									
Chromium	ND	5E-05									
Cobalt	ND	1E-05									
Copper	ND	4E-05									
Lead	ND	1E-05									
Manganese	ND	2E-05									
Mercury	6E-06	5E-06									
Nickel	ND	5E-05									
Selenium	ND	0.001									
Silver	0.0002	2E-05									
Thallium	ND	2E-05									
Vanadium	ND	3E-05									
Zinc	0.0005	0.0004									

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICPMS204-B_100415A: 17	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.8			
Analysis Date: 04/15/10 06:45	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0491	0.10	0.05		98	85	115				
Antimony	0.0496	0.050	0.05		99	85	115				
Arsenic	0.0485	0.0050	0.05		97	85	115				
Barium	0.0495	0.10	0.05		99	85	115				
Beryllium	0.0492	0.0010	0.05		98	85	115				
Cadmium	0.0489	0.0010	0.05		98	85	115				
Chromium	0.0496	0.010	0.05		99	85	115				
Cobalt	0.0488	0.010	0.05		98	85	115				
Copper	0.0484	0.010	0.05		97	85	115				
Lead	0.0494	0.010	0.05		99	85	115				

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010
BatchID: R61604

Date: 19-Apr-10

Run ID :Run Order: ICPMS204-B_100415A: 17	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.8			
Analysis Date: 04/15/10 06:45	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	0.0498	0.010	0.05		100	85	115				
Mercury	0.00100	0.0010	0.001	0.0000055	100	85	115				
Nickel	0.0491	0.010	0.05		98	85	115				
Selenium	0.0475	0.0050	0.05		95	85	115				
Silver	0.0186	0.0050	0.02	0.0001923	92	85	115				
Thallium	0.0496	0.10	0.05		99	85	115				
Vanadium	0.0493	0.10	0.05		99	85	115				
Zinc	0.0504	0.010	0.05	0.000548	100	85	115				

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICPMS204-B_100415A: 35	SampType: Sample Matrix Spike				Sample ID: H10040186-004BMS			Method: E200.8			
Analysis Date: 04/15/10 08:17	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.102	0.10	0.1	0.0009018	101	70	130				
Antimony	0.0954	0.0050	0.1		95	70	130				
Arsenic	0.100	0.0050	0.1		100	70	130				
Barium	0.0953	0.10	0.1		95	70	130				
Beryllium	0.103	0.0010	0.1		103	70	130				
Cadmium	0.0979	0.0010	0.1		98	70	130				
Chromium	0.104	0.010	0.1		104	70	130				
Cobalt	0.105	0.010	0.1	0.0002194	105	70	130				
Copper	0.108	0.010	0.1	0.0004026	108	70	130				
Lead	0.0982	0.010	0.1	0.0000714	98	70	130				
Manganese	0.104	0.010	0.1	0.0004406	103	70	130				
Mercury	0.00196	0.0010	0.002		98	70	130				
Nickel	0.104	0.010	0.1		104	70	130				
Selenium	0.102	0.0050	0.1		102	70	130				
Silver	0.0375	0.0050	0.04		94	70	130				
Thallium	0.0987	0.0050	0.1		99	70	130				
Vanadium	0.0995	0.10	0.1		100	70	130				
Zinc	0.108	0.010	0.1	0.005718	103	70	130				

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 BatchID: R61604

Date: 19-Apr-10

Run ID :Run Order: ICPMS204-B_100415A: 36	SampType: Sample Matrix Spike Duplicate				Sample ID: H10040186-004BMSD				Method: E200.8		
Analysis Date: 04/15/10 08:23	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes 18	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.102	0.10	0.1	0.0009018	102	70	130	0.1023	0.2	20	
Antimony	0.0966	0.0050	0.1		97	70	130	0.09536	1.3	20	
Arsenic	0.0977	0.0050	0.1		98	70	130	0.1002	2.5	20	
Barium	0.0964	0.10	0.1		96	70	130	0.09532		20	
Beryllium	0.105	0.0010	0.1		105	70	130	0.1029	1.9	20	
Cadmium	0.0992	0.0010	0.1		99	70	130	0.09786	1.4	20	
Chromium	0.103	0.010	0.1		103	70	130	0.1043	1.4	20	
Cobalt	0.104	0.010	0.1	0.0002194	104	70	130	0.1054	1.4	20	
Copper	0.105	0.010	0.1	0.0004026	105	70	130	0.1081	2.5	20	
Lead	0.0981	0.010	0.1	0.0000714	98	70	130	0.09822	0.1	20	
Manganese	0.101	0.010	0.1	0.0004406	101	70	130	0.1037	2.5	20	
Mercury	0.00205	0.0010	0.002		103	70	130	0.00196	4.7	20	
Nickel	0.102	0.010	0.1		102	70	130	0.104	1.8	20	
Selenium	0.0993	0.0050	0.1		99	70	130	0.1023	2.9	20	
Silver	0.0397	0.0050	0.04		99	70	130	0.0375	5.6	20	
Thallium	0.0984	0.0050	0.1		98	70	130	0.09868	0.3	20	
Vanadium	0.0995	0.10	0.1		100	70	130	0.09954		20	
Zinc	0.105	0.010	0.1	0.005718	99	70	130	0.1083	3.1	20	

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust
Work Order: H10040186
Project: Residential Well Sampling - April 2010

ANALYTICAL QC SUMMARY REPORT

Date: 19-Apr-10

BatchID: R61643

Run ID :Run Order: MAN-TECH_100415A: 3		SampType: Method Blank				Sample ID: MBLK				Method: A2320 B		
Analysis Date: 04/15/10 13:22		Units: mg/L				Prep Info:		Prep Date:		Prep Method:		
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Alkalinity, Total as CaCO3	ND	0.9										
Associated samples: H10040186-001A: H10040186-002A: H10040186-003A: H10040186-004A												

Run ID :Run Order: MAN-TECH_100415A: 5				SampType: Laboratory Control Sample				Sample ID: LCS				Method: A2320 B			
Analysis Date: 04/15/10 13:32				Units: mg/L				Prep Info:		Prep Date:		Prep Method:			
Analytes 1		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual			
Alkalinity, Total as CaCO3		590	4.0	600		99	90	110							
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A															

Run ID :Run Order: MAN-TECH_100415A: 13				SampType: Sample Matrix Spike				Sample ID: H10040186-002AMS				Method: A2320 B		
Analysis Date: 04/15/10 14:01				Units: mg/L				Prep Info:		Prep Date:		Prep Method:		
Analytes 1		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Alkalinity, Total as CaCO3		810	4.0	600	142.5	112	90	110				S		
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A														

Run ID :Run Order: MAN-TECH_100415A: 14				SampType: Sample Matrix Spike Duplicate				Sample ID: H10040186-002AMSD				Method: A2320 B			
Analysis Date: 04/15/10 14:10				Units: mg/L				Prep Info:		Prep Date:		Prep Method:			
Analytes 1		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual			
Alkalinity, Total as CaCO3		780	4.0	600	142.5	107	90	110	812.6	3.5	20				
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A															

Run ID :Run Order: MAN-TECH_100415A: 18			SampType: Sample Duplicate			Sample ID: H10040186-003ADUP			Method: A2320 B		
Analysis Date: 04/15/10 14:24		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total as CaCO3	140	4.0						141.9	0.1	20	
Bicarbonate as HCO3	170	4.0						173.1	0.1	20	
Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A											

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 BatchID: R61643

Date: 19-Apr-10

Run ID :Run Order: MAN-TECH_100415A: 1	SampType: Initial Calibration Verification Standard	Sample ID: ICV	Method: A2510 B
Analysis Date: 04/15/10 13:14	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	718 1.0 717.5	100 90 110	

Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

Run ID :Run Order: MAN-TECH_100415A: 4	SampType: Laboratory Control Sample	Sample ID: LCS	Method: A2510 B
Analysis Date: 04/15/10 13:24	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	1410 1.0 1412	100 90 110	

Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

Run ID :Run Order: MAN-TECH_100415A: 19	SampType: Sample Duplicate	Sample ID: H10040186-003ADUP	Method: A2510 B
Analysis Date: 04/15/10 14:24	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	595 1.0	593.6 0.2 10	

Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

Run ID :Run Order: MAN-TECH_100415A: 30	SampType: Continuing Calibration Verification Standard	Sample ID: CCV	Method: A2510 B
Analysis Date: 04/15/10 14:25	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	719 1.0 718	100 90 110	

Associated samples:

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 **BatchID: R61643**

Date: 19-Apr-10

Run ID :Run Order: MAN-TECH_100415A: 2	SampType: Initial Calibration Verification Standard	Sample ID: ICV	Method: A4500-H B
Analysis Date: 04/15/10 13:16	Units: mg/L	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
pH	6.99 0.10 7	100 99 101	

Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

Run ID :Run Order: MAN-TECH_100415A: 20	SampType: Sample Duplicate	Sample ID: H10040186-003ADUP	Method: A4500-H B
Analysis Date: 04/15/10 14:24	Units: s.u.	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
pH	8.03 0.10	8.02 0.1 2	

Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

Run ID :Run Order: MAN-TECH_100415A: 31	SampType: Continuing Calibration Verification Standard	Sample ID: CCV	Method: A4500-H B
Analysis Date: 04/15/10 14:48	Units: mg/L	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
pH	7.00 0.10 7	100 99 101	

Associated samples:

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 BatchID: R61666

Date: 19-Apr-10

Run ID :Run Order: IC101-H_100415A: 1	SampType: Initial Calibration Verification Standard				Sample ID: ICV041510-12			Method: E300.0			
Analysis Date: 04/15/10 15:57	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	12	1.0	12.5		94	90	110				
Sulfate	52	1.0	50		104	90	110				

Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: IC101-H_100415A: 2	SampType: Method Blank				Sample ID: ICB041510-13			Method: E300.0			
Analysis Date: 04/15/10 17:34	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.05									
Sulfate	ND	0.1									

Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: IC101-H_100415A: 3	SampType: Laboratory Fortified Blank				Sample ID: LFB041510-14			Method: E300.0			
Analysis Date: 04/15/10 17:50	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		95	90	110				
Sulfate	51	1.0	50		102	90	110				

Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: IC101-H_100415A: 4	SampType: Continuing Calibration Verification Standard				Sample ID: CCV041510-15			Method: E300.0			
Analysis Date: 04/15/10 18:06	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	24	1.0	25		94	90	110				
Sulfate	50	1.0	50		99	90	110				

Associated samples: H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A

Run ID :Run Order: IC101-H_100415A: 8	SampType: Sample Matrix Spike				Sample ID: H10040186-002AMS			Method: E300.0			
Analysis Date: 04/15/10 19:12	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	57	1.0	25	31.66	101	90	110				
Sulfate	150	1.0	50	102.1	102	90	110				

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 **BatchID:** R61666

Date: 19-Apr-10

Run ID :Run Order: **IC101-H_100415A: 8** SampType: **Sample Matrix Spike** Sample ID: **H10040186-002AMS** Method: **E300.0**
Analysis Date: **04/15/10 19:12** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **2** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

Run ID :Run Order: **IC101-H_100415A: 9** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10040186-002AMSD** Method: **E300.0**
Analysis Date: **04/15/10 19:29** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **2** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride 57 1.0 25 31.66 **101** 90 110 57 **0** 20
Sulfate 150 1.0 50 102.1 **102** 90 110 153 **0.1** 20
Associated samples: **H10040186-001A; H10040186-002A; H10040186-003A; H10040186-004A**

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040186
Project: Residential Well Sampling - April 2010 **BatchID: R61703**

Date: 19-Apr-10

Run ID :Run Order: ICP1-HE_100416A: 5	SampType: Initial Calibration Verification Standard				Sample ID: ICV			Method: E200.7			
Analysis Date: 04/16/10 09:36	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	41.7	1.0	40		104	95	105				
Gold	2.01	0.10	2		100	95	105				
Iron	4.15	0.030	4		104	95	105				
Magnesium	41.2	1.0	40		103	95	105				
Potassium	38.2	1.0	40		96	95	105				
Sodium	39.2	1.0	40		98	95	105				
Tellurium	2.08	0.10	2		104	95	105				

Associated samples: **H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B**

Run ID :Run Order: ICP1-HE_100416A: 7	SampType: Continuing Calibration Verification Standard				Sample ID: CCV-1			Method: E200.7			
Analysis Date: 04/16/10 09:44	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	25.9	1.0	25		104	95	105				
Gold	2.52	0.10	2.5		101	95	105				
Iron	2.60	0.030	2.5		104	95	105				
Magnesium	24.8	1.0	25		99	95	105				
Potassium	24.1	1.0	25		96	95	105				
Sodium	25.8	1.0	25		103	95	105				
Tellurium	2.60	0.10	2.5		104	95	105				

Associated samples: **H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B**

Run ID :Run Order: ICP1-HE_100416A: 10	SampType: Interference Check Sample A				Sample ID: ICSA			Method: E200.7			
Analysis Date: 04/16/10 09:55	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	571	1.0	500		114	80	120				
Gold	0.0211	0.10				0	0				
Iron	202	0.030	200		101	80	120				
Magnesium	579	1.0	500		116	80	120				
Potassium	0.0128	1.0				0	0				
Sodium	0.0529	1.0				0	0				
Tellurium	0.0350	0.10				0	0				

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Client: Montana Environmental Custodial Trust
Work Order: H10040186
Project: Residential Well Sampling - April 2010

ANALYTICAL QC SUMMARY REPORT
BatchID: R61703

Date: 19-Apr-10

Run ID :Run Order: **ICP1-HE_100416A: 10** SampType: **Interference Check Sample A** Sample ID: **ICSA** Method: **E200.7**
Analysis Date: **04/16/10 09:55** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **Z** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Associated samples: **H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B**

Run ID :Run Order: **ICP1-HE_100416A: 11** SampType: **Interference Check Sample AB** Sample ID: **ICSAB** Method: **E200.7**
Analysis Date: **04/16/10 09:58** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **Z** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium 547 1.0 500 **109** 80 120
Gold 1.09 0.10 1 **109** 80 120
Iron 199 0.030 200 **100** 80 120
Magnesium 560 1.0 500 **112** 80 120
Potassium 20.7 1.0 20 **103** 80 120
Sodium 20.3 1.0 20 **101** 80 120
Tellurium 1.01 0.10 1 **101** 80 120
Associated samples: **H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B**

Run ID :Run Order: **ICP1-HE_100416A: 12** SampType: **Continuing Calibration Verification Standard** Sample ID: **CCV** Method: **E200.7**
Analysis Date: **04/16/10 10:02** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **Z** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium 26.3 1.0 25 **105** 90 110
Gold 2.52 0.10 2.5 **101** 90 110
Iron 2.64 0.030 2.5 **106** 90 110
Magnesium 25.3 1.0 25 **101** 90 110
Potassium 23.7 1.0 25 **95** 90 110
Sodium 25.3 1.0 25 **101** 90 110
Tellurium 2.59 0.10 2.5 **104** 90 110
Associated samples: **H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B**

Run ID :Run Order: **ICP1-HE_100416A: 14** SampType: **Method Blank** Sample ID: **ICB** Method: **E200.7**
Analysis Date: **04/16/10 10:12** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **Z** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Calcium ND 0.1
Gold ND 0.002

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust
Work Order: H10040186
Project: Residential Well Sampling - April 2010

ANALYTICAL QC SUMMARY REPORT

Date: 19-Apr-10

BatchID: R61703

Run ID :Run Order: ICP1-HE_100416A: 14		SampType: Method Blank				Sample ID: ICB			Method: E200.7		
Analysis Date: 04/16/10 10:12		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes <u>I</u>	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	0.002									
Magnesium	ND	0.02									
Potassium	ND	0.04									
Sodium	ND	0.1									
Tellurium	ND	0.01									

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICP1-HE_100416A: 15		SampType: Laboratory Fortified Blank			Sample ID: LFB			Method: E200.7			
Analysis Date: 04/16/10 10:16		Units: mg/L		Prep Info: Prep Date:			Prep Method:				
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.80	1.0	10		98	85	115				
Gold	0.489	0.10	0.5		98	85	115				
Iron	1.02	0.030	1		102	85	115				
Magnesium	9.83	1.0	10		98	85	115				
Potassium	9.96	1.0	10		100	85	115				
Sodium	9.79	1.0	10		98	85	115				
Tellurium	0.433	0.10	0.5		87	85	115				

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICP1-HE_100416A: 19		SampType: Sample Matrix Spike				Sample ID: H10040186-003BMS2				Method: E200.7		
Analysis Date: 04/16/10 10:28		Units: mg/L				Prep Info:		Prep Date:		Prep Method:		
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Calcium	74.5	1.0	20	54	102	70	130					
Gold	0.987	0.010	1		99	70	130					
Iron	2.09	0.030	2		104	70	130					
Magnesium	36.6	1.0	20	16.53	100	70	130					
Potassium	31.4	1.0	20	12.06	96	70	130					
Sodium	54.6	1.0	20	35.55	95	70	130					
Tellurium	0.792	0.025	1		79	70	130					

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust
Work Order: H10040186
Project: Residential Well Sampling - April 2010

ANALYTICAL QC SUMMARY REPORT

Date: 19-Apr-10

BatchID: R61703

Run ID :Run Order: ICP1-HE_100416A: 20	SampType: Sample Matrix Spike Duplicate				Sample ID: H10040186-003BMSD2				Method: E200.7		
Analysis Date: 04/16/10 10:31	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	74.7	1.0	20	54	104	70	130	74.5	0.3	20	
Gold	0.973	0.010	1		97	70	130	0.9872	1.5	20	
Iron	2.06	0.030	2		103	70	130	2.088	1.4	20	
Magnesium	36.4	1.0	20	16.53	100	70	130	36.6	0.4	20	
Potassium	31.4	1.0	20	12.06	97	70	130	31.36	0.2	20	
Sodium	57.0	1.0	20	35.55	107	70	130	54.6	4.2	20	
Tellurium	0.827	0.025	1		83	70	130	0.7918	4.3	20	

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICP1-HE_100416A: 33	SampType: Interference Check Sample A				Sample ID: ICSEA				Method: E200.7		
Analysis Date: 04/16/10 11:11	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	542	1.0	500		108	80	120				
Gold	0.0230	0.10				0	0				
Iron	186	0.030	200		93	80	120				
Magnesium	547	1.0	500		109	80	120				
Potassium	0.0161	1.0				0	0				
Sodium	0.0495	1.0				0	0				
Tellurium	0.0420	0.10				0	0				

Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B

Run ID :Run Order: ICP1-HE_100416A: 34	SampType: Interference Check Sample AB				Sample ID: ICSEAB				Method: E200.7		
Analysis Date: 04/16/10 11:14	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	505	1.0	500		101	80	120				
Gold	0.997	0.10	1		100	80	120				
Iron	186	0.030	200		93	80	120				
Magnesium	547	1.0	500		109	80	120				
Potassium	19.6	1.0	20		98	80	120				
Sodium	19.6	1.0	20		98	80	120				
Tellurium	0.880	0.10	1		88	80	120				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

Client: Montana Environmental Custodial Trust
Work Order: H10040186
Project: Residential Well Sampling - April 2010

ANALYTICAL QC SUMMARY REPORT

Date: 19-Apr-10

BatchID: R61703

Run ID :Run Order: ICP1-HE_100416A: 34	SampType: Interference Check Sample AB	Sample ID: ICSAB	Method: E200.7								
Analysis Date: 04/16/10 11:14	Units: mg/L	Prep Info: Prep Date:	Prep Method:								
Analytes Z	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Associated samples: H10040186-001B; H10040186-002B; H10040186-003B; H10040186-004B											

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



Workorder Receipt Checklist



Montana Environmental Custodial Trust

H10040186

Login completed by: Tracy L. Lorash

Date Received: 4/14/2010

Reviewed by: BL2000\wjohnson

Received by: TLL

Reviewed Date: 4/19/2010

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	9.8°C From Field		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None

VALIDATION SUMMARY
MONTANA ENVIRONMENTAL TRUST GROUP, LLC
EAST HELENA PLANT RCRA CONSENT DECREE
MONTHLY RESIDENTIAL WELL MONITORING PROGRAM
INORGANIC ANALYSES
APRIL 2010 SAMPLE EVENT
ENERGY LABORATORY WORK ORDER NO.
H10040032

Prepared for:
Mr. Marc Weinreich
Montana Environmental Trust Group
15001 Winged Bluff Lane
Draper, UT 84020

Prepared by:
Linda L. Tangen
6900 Cherry Blossom Lane
Albuquerque, NM 87111

April 2010

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GLOSSARY OF TERMS

(Not all of these acronyms may be used in this document)

CLP.....	Contract Laboratory Program
COC.....	Chain of Custody
CRDL.....	Contract Required Detection Limit
DI.....	Deionized Water
DIS.....	Dissolved
DQO.....	Data Quality Objective
ELI-Hel	Energy Laboratories, Inc., Helena, Montana
EPA.....	U.S. Environmental Protection Agency
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
LCS.....	Laboratory Control Sample
LFB.....	Laboratory Fortified Blank
MS	Matrix Spike
METG.....	Montana Environmental Trust Group, LLC
NA	Not Applicable
PDLG.....	Project Detection Limit Goal
QC	Quality Control
RCRA	Resource and Conservation Recovery Act
RPD	Relative Percent Difference
SC.....	Specific Conductivity
TDS	Total Dissolved Solids

SUMMARY

Groundwater samples were collected from East Helena residential groundwater wells on April 2, 2010 for the Montana Environmental Trust Group, LLC's (METG) monthly monitoring program. These samples were collected according to the U.S. Environmental Protection Agency's (EPA) Resource and Conservation Recovery Act (RCRA) Consent Decree Monitoring Program (ASARCO 2009), which is administered by the Montana Environmental Trust Group, LLC (METG). Inorganic constituents for these samples were validated using EPA guidelines for data validation (EPA 2004) and the project work plan (ASARCO 2009). Samples were analyzed by Energy Laboratories, Inc. (ELI-Hel) in Helena, Montana, under work order H1004032.

The validated database is located in Appendix 1. Field notes, chain of custody forms, and laboratory reports are located in Appendices 2, 3, and 4, respectively.

Data quality objectives for this project are as follows:

- **Precision** is determined by field and laboratory duplicate sample results that are within control limits. The completeness objective for precision is 90% of the duplicate sample results within control limits. **This objective was met as 100% (33 out of 33 results) of the field duplicate and 100% (52 out of 52 results) of the laboratory duplicate results were in control limits. The overall precision was calculated at 100% (85 out of 85 results).**
- **Accuracy** is determined by laboratory control sample (LCS) and matrix spike (MS) sample results that are within control limits. The completeness objective for accuracy is 90% of the LCS and MS sample results within control limits. **This objective was met as 100% (38 out of 38 results) of the LCS results and 100% (57 out of 57 results) of the MS results were within control limits. The overall accuracy was calculated at 100% (104 out of 104 results).**
- **Completeness** is calculated by the number of valid (not rejected) data per number of planned data, expressed as a percentage. The completeness goal for this project was 90%. **This goal was met as 100% (177 out of 177 results) of the planned data were analyzed and deemed valid.**

Qualified Data Summary

- No data were qualified due to this review.

Conclusion

The data collected in April 2010 for the METG East Helena RCRA Consent Decree's monthly residential well monitoring program are deemed acceptable and can be used for the purposes they were intended. **Of the measured results, 100% (177 out of 177 results) can be used without qualification.**

Data Validation Report by: Linda L. Tangen

Client Review: Jon Nickel
Montana Environmental Trust Group

DATA VALIDATION REPORT

1. INTRODUCTION

- This validation applies to analyses for five groundwater and quality control samples collected on April 2, 2010 for the METG East Helena RCRA Consent Decree's monthly residential well monitoring program (ASARCO 2009). Samples were analyzed by Energy Laboratories in Helena, Montana (ELI-Hel) under work order H10040032. One field blank and one field duplicate sample was included with these samples.
- Validation procedures used are generally consistent with:
 - ☒ EPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganics Data Review (EPA 2004)
 - ☒ ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan (ASARCO 2009)
 - ☐ Other
- Overall level of validation:
 - ☐ CLP
 - ☒ Standard – Field and laboratory quality control (QC) samples are reviewed; and samples associated with QC violations are flagged.
 - ☐ Visual

2. DELIVERABLES

- All laboratory document deliverables were present and accurate as specified in the CLP-Statement of Work (EPA 2001), and/or the project contract.
 - ☒ Yes
 - ☐ No
- All documentation of field procedures was provided as required.
 - ☒ Yes
 - ☐ No

3. FIELD PROCEDURES

- Samples were collected from all project-required sites.
 - ☐ Yes
 - ☒ No - see notes

Notes: Samples were not collected at site 109 Gail because the well was shut down for the winter. This omission was not subtracted from the project's completeness.

- Field parameters were measured in accordance with the project work plan.
☒ Yes
☐ No
- Field instruments were calibrated daily and before measurements were collected.
☒ Yes
☐ No
- Chains of Custodies (COCs) were properly filled out and signed by the field personnel.
☒ Yes
☐ No
- Data entry into field books, on COCs, and on sample labels were accurate and complete.
☒ Yes
☐ No
- Samples were properly preserved in the field.
☐ Yes
☒ No – see notes

Notes: The samples were received by the laboratory at a temperature of 8.0°C instead of the required 4-6 °C. However, they were delivered directly from the field and did not have time to cool to the proper temperature. Therefore, the samples' quality was not affected.

4. FIELD BLANKS

Blanks: Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

Deionized water (DI), trip, rinsate, or any other field blanks have been carried out at the proper frequency (one rinsate blank and one DI blank per event).

☒ Yes
☐ No

Reported results on the field blanks were less than the Project Detection Limit Goals (PDLGs) or reporting limit.

☒ Yes
☐ No

5. FIELD DUPLICATES

Field duplicates have been collected at the proper frequency (one field duplicate per event).

☒ Yes
☐ No

Field duplicate relative percent differences (RPDs) were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within \pm the PDLG.

☒ Yes
☐ No

6. LABORATORY PROCEDURES

- **Laboratory procedures followed**

☒ CLP-Statement of Work (EPA 2001)
☐ SW-846 (EPA 1986)
☒ Methods for Chemical Analysis of Water and Wastes (EPA 1983)

- **Holding times met**

☒ Yes
☐ No

- **Consistency with project requirements**

Analyses were carried out as required by the project work plan (ASARCO 2009).

☒ Yes
☐ No

Project specified methods were used.

☒ Yes
☐ No

7. DETECTION LIMITS

- **Reporting detection limits met PDLGs.**

☒ Yes
☐ No

8. LABORATORY BLANKS

Please note that the highest blank value associated with any particular analyte is the blank value used for the flagging process.

- Method blanks were prepared and analyzed at the required frequency (one per batch or one per 20 samples, whichever is greater).

☒ Yes
☐ No

- All the analytes in the blank were less than the PDLG.

☒ Yes
☐ No

9. LABORATORY MATRIX SPIKES

- A Matrix Spike (MS) sample (pre-digestion) was analyzed at the proper frequency (one per batch and/or matrix).

☒ Yes
☐ No

- MS recoveries were within the required control limits (75-125%).

☒ Yes
☐ No

10. LABORATORY DUPLICATES

- Laboratory duplicate samples were analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).

☒ Yes
☐ No

- RPDs were within the required control limits (RPD of 20% or less). If the sample or duplicate result is less or equal to five times the PDLG, the RPD criteria are not used. In these cases, the difference between the sample and the duplicate results must be within \pm the PDLG.

☒ Yes
☐ No

11. LABORATORY CONTROL STANDARDS (LCS)

Laboratory Fortified Blanks (LFBs) were used in lieu of LCS' for metal analyses. This is acceptable for the purpose of the project.

- The reference material used for the LCS or LFB was of the correct matrix.
☒ Yes
☐ No
- LCS' or LFBs were prepared and analyzed at the proper frequency (one per batch or one per 20 samples, whichever is greater).
☒ Yes
☐ No
- LCS recoveries were within the required control limits (80-120% or certified range).
☒ Yes
☐ No

12. INTERPARAMETER COMPARISON

- ☒ Lab pH vs. Field pH.
- ☒ Lab Specific Conductivity (SC) vs. Field SC
- ☒ Total Dissolved Solids (TDS) vs. Lab SC
- ☒ Ion Balance

Notes: RPDs were used to compare associated measurements. If the RPD was greater than 20, the measurements were then compared to other analytes and/or historical data to determine if they were valid or anomalies. Following is a summary of these comparisons.

Lab pH vs. Field pH: All field and lab pH comparisons were in order (pairs had RPDs less than 20). The RPDs for pH pairs ranged from 11.0% to 18.9%, with an average RPD of 15.5%.

Lab SC vs. Field SC: All field and lab SC comparisons were in order (pairs had RPDs less than 20). The RPDs for SC pairs ranged from 17.5% to 19.4%, with an average RPD of 18.3%.

TDS vs. Lab SC: The ratio of TDS to lab SC should lie between 0.55 and 0.75. In natural waters with high sulfate, the ratio may be much higher. This ratio is intended to be a check on the accuracy of the TDS and lab SC measurements. (It should be noted that these measurements are less accurate in dilute waters.) For this sampling event, the ratios were in line with historical data. The TDS/SC ratios ranged from 0.70 to 0.75, with an average ratio of 0.73.

Ion Balance: All ion balances were in order (RPDs were less than 20 but preferably, less than 10). The ion balances ranged from 4.14% to 5.73%, with an average RPD of 4.68%.

13. HISTORICAL COMPARISON SUMMARY

Data for this sampling event were compared with the previous five years of sampling events. All of this sampling event's results were less than three standard deviations from the historical mean.

14. DATA QUALITY OBJECTIVES (DQOs)

- The data quality goal was met for precision (90% of the field and laboratory duplicates were within control limits).

 X Yes –see the following table
 No

Precision Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
Field Duplicates	33	0	33	100.0%
Lab Duplicates	52	0	52	100.0%
Overall	85	0	85	100.0%

- The data quality goal was met for accuracy (90% of the LCS and matrix spike results were within control limits).

 X Yes – see the following table
 No

Accuracy Objectives

QC Type	Total Results	# of Results Out of Control Limits	# of Results Within Control Limits	% Within Control Limits
LCS' and LFBs	38	0	38	100.0%
Matrix Spikes	57	0	57	100.0%
Overall	95	0	95	100.0%

- DQO target for completeness was met (the number of valid results divided by the number of possible results is 90% or above).

 X Yes – see the following table
 No

Completeness

# of Planned Measurements	Actual # of Measurements	# of Rejected Measurements	# of Valid Measurements	Completeness
177	177	0	177	100%

- Samples were qualified for QC exceedances and deficiencies.

 Yes

 X No – see the following table

Qualification of Samples

# of Measurements	# of Qualified Measurements	# Not Qualified	% Not Qualified
177	0	177	100%

15. CONCLUSION

The data collected in April 2010 for the METG East Helena RCRA Consent Decree's monthly residential well monitoring program are deemed acceptable and can be used for the purposes they were intended.

REFERENCES

- ASARCO 2009. *ASARCO East Helena Plant RCRA Consent Decree Monitoring Plan*. ASARCO LLC. March.
- EPA 1983. *Methods for Chemical Analysis of Water and Wastes*. United States Environmental Protection Agency. March.
- EPA 1986. *Test Method for Evaluating Solid Waste: Physical/Chemical Methods 3rd Ed. 4 Vols.* United States Environmental Protection Agency. December.
- EPA 2001. *USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis*. United States Environmental Protection Agency. Document Number ILM05.2. December.
- EPA 2004. *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*. United States Environmental Protection Agency. Document Number OSWER 9240.1-45. EPA 540-R-04-004. October.

APPENDIX 1
DATABASE

ANALYSES SUMMARY REPORT

East Helena Residential Monthly Sampling Event - April 2010

Database: ASARCO, East Helena Plant

Table of Contents by Station Type

<u>Page</u>	<u>Station Type</u>	<u>Station Name</u>
1	Domestic Wells	203Gail
1	Domestic Wells	401Gail
1	Domestic Wells	2540 Wylie
3	Field Quality Control	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/20/2010 1:49:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

East Helena Residential Monthly Sampling Event - April 2010

Database: ASARCO, East Helena Plant

Table of Contents By Lab Sample ID

<u>Page</u>	<u>Lab Sample ID</u>	<u>Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
1	H10040032-001	EHR-0410-300	4/2/2010	401Gail
1	H10040032-002	EHR-0410-301	4/2/2010	203Gail
1	H10040032-003	EHR-0410-302	4/2/2010	203Gail
1	H10040032-004	EHR-0410-303	4/2/2010	2540 Wylie
3	H10040032-005	EHR-0410-304	4/2/2010	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/20/2010 1:49:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

East Helena Residential Monthly Sampling Event - April 2010

Database: ASARCO, East Helena Plant

Table of Contents by Sample ID

<u>Page</u>	<u>Sample ID</u>	<u>Lab Sample ID</u>	<u>Sample Date</u>	<u>Station Name</u>
1	EHR-0410-300	H10040032-001	4/2/2010	401Gail
1	EHR-0410-301	H10040032-002	4/2/2010	203Gail
1	EHR-0410-302	H10040032-003	4/2/2010	203Gail
1	EHR-0410-303	H10040032-004	4/2/2010	2540 Wylie
3	EHR-0410-304	H10040032-005	4/2/2010	FieldBlank

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

Run Time: 4/20/2010 1:49:51 PM

C:\EnviroDataDB\Databases\V5_B_DB\EastHelena.mdb

ANALYSES SUMMARY REPORT

East Helena Residential Monthly Sampling Event - April 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gail	203Gail	2540 Wylie	401Gail
Water	SAMPLE DATE	4/2/2010	4/2/2010	4/2/2010	4/2/2010
	SAMPLE TIME	09:00	09:20	11:00	08:15
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10040032-002	H10040032-003	H10040032-004	H10040032-001
	SAMPLE NUMBER	EHR-0410-301	EHR-0410-302	EHR-0410-303	EHR-0410-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS		Field Duplicate		

Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	95	95	140	150
Calcium (Ca) (DIS)	29	29	57	95
Chloride (Cl)	4	4	7	27
Magnesium (Mg) (DIS)	7	7	12	21
Potassium (K) (DIS)	2	2	5	6
Sodium (Na) (DIS)	13	13	17	24
Sulfate (SO4)	53	53	120	230
Total Alkalinity As CaCO3	78	78	120	120

Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.1	<0.1	<0.1	<0.1
Antimony (Sb) (DIS)	<0.003	<0.003	<0.003	<0.003
Arsenic (As) (DIS)	<0.002	<0.002	<0.002	0.002
Barium (Ba) (DIS)	<0.1	<0.1	<0.1	<0.1
Beryllium (Be) (DIS)	<0.001	<0.001	<0.001	<0.001
Cadmium (Cd) (DIS)	<0.001	<0.001	<0.001	<0.001
Chromium (Cr) (DIS)	<0.001	<0.001	<0.001	<0.001
Cobalt (Co) (DIS)	<0.01	<0.01	<0.01	<0.01
Copper (Cu) (DIS)	0.018	0.018	0.002	0.004
Gold (Au) (DIS)	<0.01	<0.01	<0.01	<0.01
Iron (Fe) (DIS)	<0.02	<0.02	<0.02	0.09
Lead (Pb) (DIS)	<0.005	<0.005	<0.005	<0.005
Manganese (Mn) (DIS)	<0.01	<0.01	<0.01	0.02
Mercury (Hg) (DIS)	<0.001	<0.001	<0.001	<0.001
Nickel (Ni) (DIS)	<0.01	<0.01	<0.01	<0.01
Selenium (Se) (DIS)	<0.001	<0.001	0.003	0.022
Silver (Ag) (DIS)	<0.005	<0.005	<0.005	<0.005
Tellurium (Te) (DIS)	<0.1	<0.1	<0.1	<0.1
Thallium (Tl) (DIS)	<0.001	<0.001	<0.001	<0.001
Vanadium (V) (DIS)	<0.01	<0.01	<0.01	<0.01
Zinc (Zn) (DIS)	<0.01	<0.01	0.02	0.04

Physical/Fld-Lab: ppm unless noted

Oxygen (O) (DIS) (Fld)	7.64		7.31	5.68
pH	7.7	7.8	7.8	7.7
pH (Fld)	6.9		6.45	6.52
SC (umhos/cm at 25 C) (Fld)	233		390	629
SC (umhos/cm at 25 C)	279	277	474	750

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Residential Monthly Sampling Event - April 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	203Gall	203Gall	2540 Wylie	401Gall
Water	SAMPLE DATE	4/2/2010	4/2/2010	4/2/2010	4/2/2010
	SAMPLE TIME	09:00	09:20	11:00	08:15
	LAB	ELI	ELI	ELI	ELI
	LAB NUMBER	H10040032-002	H10040032-003	H10040032-004	H10040032-001
	SAMPLE NUMBER	EHR-0410-301	EHR-0410-302	EHR-0410-303	EHR-0410-300
	TYPE	Domestic Wells	Domestic Wells	Domestic Wells	Domestic Wells
	GROUP	Private Wells	Private Wells	Private Wells	Private Wells
	DESCRIPTION				
	REMARKS		Field Duplicate		

Physical/Fid-Lab: ppm unless noted

Total Suspended Solids	<10	<10	<10	<10
TDS (Measured at 180 C)	196	195	347	564
Water Temperature (C) (Fid)	10.2		9.4	11.4

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

ANALYSES SUMMARY REPORT

East Helena Residential Monthly Sampling Event - April 2010

Database: ASARCO, East Helena Plant

Sample Matrix	STATION	FieldBlank
Water	SAMPLE DATE	4/2/2010
	SAMPLE TIME	11:30
	LAB	ELI
	LAB NUMBER	H10040032-005
	SAMPLE NUMBER	EHR-0410-304
	TYPE	Field QC
	GROUP	Private Wells
	DESCRIPTION	
	REMARKS	Blank

Common Ions (mg/L): ppm unless noted

Bicarbonate (HCO3)	<1
Calcium (Ca) (DIS)	<1
Chloride (Cl)	<1
Magnesium (Mg) (DIS)	<1
Potassium (K) (DIS)	<1
Sodium (Na) (DIS)	<1
Sulfate (SO4)	<1
Total Alkalinity As CaCO3	<1

Metals (mg/L): ppm unless noted

Aluminum (Al) (DIS)	<0.1
Antimony (Sb) (DIS)	<0.003
Arsenic (As) (DIS)	<0.002
Barium (Ba) (DIS)	<0.1
Beryllium (Be) (DIS)	<0.001
Cadmium (Cd) (DIS)	<0.001
Chromium (Cr) (DIS)	<0.001
Cobalt (Co) (DIS)	<0.01
Copper (Cu) (DIS)	<0.001
Gold (Au) (DIS)	<0.01
Iron (Fe) (DIS)	<0.02
Lead (Pb) (DIS)	<0.005
Manganese (Mn) (DIS)	<0.01
Mercury (Hg) (DIS)	<0.001
Nickel (Ni) (DIS)	<0.01
Selenium (Se) (DIS)	<0.001
Silver (Ag) (DIS)	<0.005
Tellurium (Te) (DIS)	<0.1
Thallium (Tl) (DIS)	<0.001
Vanadium (V) (DIS)	<0.01
Zinc (Zn) (DIS)	<0.01

Physical/Field-Lab: ppm unless noted

pH	5.4
SC (umhos/cm at 25 C)	<1
Total Suspended Solids	<10
TDS (Measured at 180 C)	<10

TOT: Total; DIS: Dissolved; TRC: Total Recoverable

NOTE: Table 1 lists data validation flagging descriptions.

APPENDIX 2
FIELD NOTES

APRIL 2, 2010		
MONTHLY R/ES LONG-TERM MONITORING		
RESIDENTIAL WELL SAMPLING		
FIELD STANDARDIZATION OF HEXIVA		
	STANDARD	METER
	VALVE	READING
PH	4.00 SU	4.00 SU
CONDUCTIVITY	4480 $\mu\text{mhos/cm}$	4490 $\mu\text{mhos/cm}$
SALINITY	0.23‰	0.23‰

JENSEN		
EHR-0410-300		
401 GAIL STREET		
PAUL JENSEN PRESENT DURING SAMPLING		
SAMPLE COLLECTED FROM DETACHED GARDEN		
SPLOT AFTER 5 MINUTE PURGE, RAW		
SAMPLE WAS SLIGHT YELLOW TINT		
PH	6.52 SU	
CONDUCTIVITY	629 $\mu\text{mhos/cm}$	
D.O.	5.68 mg/L	
TEMP	11.4°C	

EHR-0410-301 ORIGINAL	
EHR-0410-302 FIELD DUPLICATE	
SAMPLE COLLECTED FROM FRONT YARD SPLOT	
203 GAIL STREET	
PH	6.90 SU
CONDUCTIVITY	233 $\mu\text{mhos/cm}$
D.O.	7.64 mg/L
TEMP	10.2°C

NORDBROM IRRIGATION WELL WINTERIZED	
SIMAC	
DRINKING WATER SUPPLY	
EHR-0410-303	
2540 34TH DRIVE	
SAMPLE COLLECTED FROM FRONT YARD	
SPLOT	
PH	6.45 SU
CONDUCTIVITY	390 $\mu\text{mhos/cm}$
D.O.	7.31 mg/L
TEMP.	9.4°C

EHR-0410-304 FIELD BLANK

APPENDIX 3
CHAIN OF CUSTODIES

PLEASE PRINT- Provide as much information as possible.

Company Name: MONTANA ENVIRONMENTAL TRUST GROUP			Project Name, PWS, Permit, Etc. LONG-TERM R1/F5 RESIDENTIAL WELL SAMPLING-APRIL 2010			Sample Origin State: MT			EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>																																																																
Report Mail Address: P.O. BOX 1230 EAST HELENA, MT 59635			Contact Name: JOHN NICKEL			Phone/Fax: (406) 227-4529			Email:			Sampler: (Please Print) NICKEL																																																													
Invoice Address:			Invoice Contact & Phone:						Purchase Order:			Quote/Bottle Order:																																																													
Special Report/Formats – ELI must be notified prior to sample submittal for the following: <input type="checkbox"/> DW <input type="checkbox"/> A2LA <input type="checkbox"/> GSA <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP Format: _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC				Number of Containers Sample Type: A W S V B O Air Water Soils/Solids Vegetation Bioassay Other		ANALYSIS REQUESTED <table border="1"> <tr> <td>PHYSICAL PARAMETERS</td> <td>COMMON IONS</td> <td>METALS</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td colspan="18" style="text-align: center;">SEE ATTACHED</td> </tr> <tr> <td colspan="18" style="text-align: center;">Normal Turnaround (TAT)</td> </tr> </table>								PHYSICAL PARAMETERS	COMMON IONS	METALS																SEE ATTACHED																		Normal Turnaround (TAT)																		R U S H		Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page		Shipped by: Hand Cooler ID(s):	
						PHYSICAL PARAMETERS	COMMON IONS	METALS																																																																	
SEE ATTACHED																																																																									
Normal Turnaround (TAT)																																																																									
Comments:		Receipt Temp: 8.0 °C On Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody Seal Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Bottles/Coolers B C Intact Y N Signature Match Y N																																																																							
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date	Collection Time	MATRIX	PHYSICAL PARAMETERS	COMMON IONS	METALS																																																																		
EHR-0410-300 RAW		4/2/2010	8:15	GW	X	X									X	X																																																									
EHR-0410-300 METAL			8:15				X																																																																		
EHR-0410-301 RAW			9:00		X	X																																																																			
EHR-0410-301 METAL			9:00				X																																																																		
EHR-0410-302 RAW			9:20		X	X																																																																			
EHR-0410-302 METAL			9:20				X																																																																		
EHR-0410-303 RAW			11:00		X	X																																																																			
EHR-0410-303 METAL			11:00				X																																																																		
EHR-0410-304 RAW			11:30		X	X																																																																			
EHR-0410-304 METAL			11:30				X																																																																		
Custody Record MUST be Signed Relinquished by (print): JOHN NICKEL Date/Time: 4/2/2010/1507 Relinquished by (print): _____ Date/Time: _____ Signature: [Signature] Signature: _____				Received by (print): _____ Date/Time: _____ Signature: _____				Received by (print): _____ Date/Time: _____ Signature: _____																																																																	
				Received by Laboratory: Reanne Ruck Date/Time: 4.2.10 15:08 Signature: [Signature]																																																																					
				Sample Disposal: _____ Return to Client: _____ Lab Disposal: _____																																																																					

**TABLE 3. SAMPLING ANALYTICAL PARAMETERS FOR
ANNUAL RESIDENTIAL AND PWS WELL MONITORING PROGRAM,
SEMI-ANNUAL LONG-TERM MONITORING PROGRAM,
SURFACE WATER MONITORING PROGRAM, AND
CAMU MONITORING PROGRAM**

Parameter	Analytical Technique	Analytical Method	Project Detection Limit (mg/L)
Physical Parameters			
PH	PH Meter	SM 4500H-B	
Specific Conductivity	SC Meter	SM 2510 B	
TDS	Gravimetric	SM 2540C	10
TSS	Gravimetric	SM 2540D	10
Common Ions			
Alkalinity	Titrimetric	SM 2320 B	1
Bicarbonate	Titrimetric	SM 2320 B	1
Sulfate	Turbidimetric	SM 4500SO4 E	1
Chloride	Colorimetric	SM 4500 CL C	1
Calcium	ICP	200.7	5
Magnesium	ICP	200.7	5
Sodium	ICP	200.7	5
Potassium	ICP	200.7	5
Arsenic and Metals (Groundwater - Dissolved, Surface Water Dissolved and Total)			
Arsenic	ICP/ICP-MS	200.7/200.8	0.002
Cadmium	ICP/ICP-MS	200.7/200.8	0.001
Copper	ICP/ICP-MS	200.7/200.8	0.001
Iron	ICP/ICP-MS	200.7/200.8	0.02
Manganese	ICP/ICP-MS	200.7/200.8	0.01
Lead	ICP/ICP-MS	200.7/200.8	0.005
Selenium	ICP/ICP-MS	200.7/200.8	0.001
Zinc	ICP/ICP-MS	200.7/200.8	0.02
Supplemental Trace Metals (Groundwater - Dissolved, Surface Water Dissolved and Total)			
Aluminum	ICP/ICP-MS	200.7/200.8	0.1
Antimony	ICP/ICP-MS	200.7/200.8	0.003
Barium	ICP/ICP-MS	200.7/200.8	0.1
Beryllium	ICP/ICP-MS	200.7/200.8	0.001
Chromium	ICP/ICP-MS	200.7/200.8	0.001
Cobalt	ICP/ICP-MS	200.7/200.8	0.01
Gold	ICP/ICP-MS	200.7/200.8	0.01
Mercury	ICP/ICP-MS	200.8/E245.1	0.001
Nickel	ICP/ICP-MS	200.7/200.8	0.01
Silver	ICP/ICP-MS	200.7/200.8	0.005
Tellurium	ICP/ICP-MS	200.7/200.8	0.1
Thallium	ICP/ICP-MS	200.7/200.8	0.001
Vanadium	ICP/ICP-MS	200.7/200.8	0.01
Physical Parameters			
SWL	Electric Tape	HF-SOP-10	0.01 ft
Temperature	PH Meter	HF-SOP-20	NA
Dissolved Oxygen (DO)	DO Meter	HF-SOP-22	NA
PH	pH Meter	HF-SOP-20	NA
Specific Conductivity (SC)	SC Meter	HF-SOP-79	NA

H:\File\007 ASARCO\1054\2009 Mrg Plan\R09 GW-SW SMP\Doc\H.MS\19\09\063

5/19/09 3:43 AM

APPENDIX 4
LABORATORY REPORT



ANALYTICAL SUMMARY REPORT

April 15, 2010

Jon Nickel

Montana Environmental Custodial Trust

PO Box 1230

E. Helena, MT 59635-1230

Workorder No.: H10040032

Quote ID: H493 - All Water Sampling combined

Project Name: Long-Term RI/FS Residential Well Sampling-Apr 2010

Energy Laboratories Inc received the following 5 samples for Montana Environmental Custodial Trust on 4/2/2010 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
H10040032-001	EHR-0410-300	04/02/10 8:15	04/02/10	Aqueous	Metals by ICP/ICPMS, Dissolved Alkalinity Conductivity Anions by Ion Chromatography pH Preparation for TDS Preparation for TSS Solids, Total Dissolved Solids, Total Suspended
H10040032-002	EHR-0410-301	04/02/10 9:00	04/02/10	Aqueous	Same As Above
H10040032-003	EHR-0410-302	04/02/10 9:20	04/02/10	Aqueous	Same As Above
H10040032-004	EHR-0410-303	04/02/10 11:00	04/02/10	Aqueous	Same As Above
H10040032-005	EHR-0410-304	04/02/10 11:30	04/02/10	Aqueous	Same As Above

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT, EPA # MT00005
eli-c - Energy Laboratories, Inc. - Casper, WY, EPA# WY00002
eli-g - Energy Laboratories, Inc. - Gillette, WY, EPA# WY00006
eli-h - Energy Laboratories, Inc. - Helena, MT, EPA# MT00945
eli-r - Energy Laboratories, Inc. - Rapid City, SD, EPA# SD00012
eli-t - Energy Laboratories, Inc. - College Station, TX, EPA# TX01520

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES, INC. will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories are indicated within the Laboratory Analytical Report.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

ELI appreciates the opportunity to provide you with this analytical service. For additional information, including certifications, and analytical services visit our web page www.energylab.com.

Report Approved By:


Assistant Laboratory Manager - Helena

Digitally signed by

Jon Hager

Date: 2010.04.16 14:47:36 -06:00



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-300
Lab ID: H10040032-001
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 08:15 **Date Received:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	04/05/10 17:23 / hm		MAN-TECH_100405A : 8		R61360
Conductivity	750	umhos/cm		1		A2510 B	04/05/10 17:23 / hm		MAN-TECH_100405A : 7		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:19 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 5			8426
Solids, Total Dissolved TDS @ 180 C	564	mg/L		10		A2540 C	04/07/10 15:06 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 4			8424
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	04/05/10 17:23 / hm		MAN-TECH_100405A : 6		R61360
Bicarbonate as HCO3	150	mg/L		1		A2320 B	04/05/10 17:23 / hm		MAN-TECH_100405A : 6		R61360
Chloride	27	mg/L		1		E300.0	04/06/10 22:30 / hm		IC101-H_100405A : 123		R61386
Sulfate	230	mg/L		1		E300.0	04/06/10 22:30 / hm		IC101-H_100405A : 123		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Arsenic	0.002	mg/L		0.002		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Calcium	95	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Copper	0.004	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Iron	0.09	mg/L		0.02		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Magnesium	21	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Manganese	0.02	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Potassium	6	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Selenium	0.022	mg/L		0.001		E200.8	04/08/10 19:07 / dck		ICPMS204-B_100408A : 84		R61467
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



ENERGY LABORATORIES, INC. * 3161 E Lyndale (59604) * PO Box 5688 * Helena, MT 59601
Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-300
Lab ID: H10040032-001
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 08:15 **DateReceived:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	24	mg/L		1		E200.7	04/06/10 13:14 / sld		ICP1-HE_100406A : 52		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:44 / sld		ICP1-HE_100407B : 15		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389
Zinc	0.04	mg/L		0.01		E200.8	04/06/10 19:14 / dck		ICPMS204-B_100406A : 60		R61389

Report RL - Analyte reporting limit.
Defintions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-301
Lab ID: H10040032-002
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 09:00 **Date Received:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.7	s.u.		0.1		A4500-H B	04/05/10 17:36 / hm		MAN-TECH_100405A : 14		R61360
Conductivity	279	umhos/cm		1		A2510 B	04/05/10 17:36 / hm		MAN-TECH_100405A : 13		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:51 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 6			8426
Solids, Total Dissolved TDS @ 180 C	196	mg/L		10		A2540 C	04/07/10 15:06 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 5			8424
INORGANICS											
Alkalinity, Total as CaCO3	78	mg/L		1		A2320 B	04/05/10 17:36 / hm		MAN-TECH_100405A : 12		R61360
Bicarbonate as HCO3	95	mg/L		1		A2320 B	04/05/10 17:36 / hm		MAN-TECH_100405A : 12		R61360
Chloride	4	mg/L		1		E300.0	04/06/10 22:46 / hm		IC101-H_100405A : 124		R61386
Sulfate	53	mg/L		1		E300.0	04/06/10 22:46 / hm		IC101-H_100405A : 124		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Calcium	29	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Copper	0.018	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Magnesium	7	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Manganese	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Potassium	2	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Selenium	ND	mg/L		0.001		E200.8	04/14/10 02:34 / dck		ICPMS204-B_100414A : 19		R61581
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389

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Toll Free 877.472.0711 * 406.442.0711 * FAX 406.442.0712 * helena@enerylab.com

LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-301
Lab ID: H10040032-002
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 09:00 **DateReceived:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	13	mg/L		1		E200.7	04/06/10 13:17 / sld		ICP1-HE_100406A : 53		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:47 / sld		ICP1-HE_100407B : 16		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389
Zinc	ND	mg/L		0.01		E200.8	04/06/10 19:19 / dck		ICPMS204-B_100406A : 61		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-302
Lab ID: H10040032-003
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 09:20 Date Received: 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.8	s.u.		0.1		A4500-H B	04/05/10 18:00 / hm		MAN-TECH_100405A : 19		R61360
Conductivity	277	umhos/cm		1		A2510 B	04/05/10 18:00 / hm		MAN-TECH_100405A : 18		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:20 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 7			8426
Solids, Total Dissolved TDS @ 180 C	195	mg/L		10		A2540 C	04/07/10 15:07 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 7			8424
INORGANICS											
Alkalinity, Total as CaCO ₃	78	mg/L		1		A2320 B	04/05/10 18:00 / hm		MAN-TECH_100405A : 17		R61360
Bicarbonate as HCO ₃	95	mg/L		1		A2320 B	04/05/10 18:00 / hm		MAN-TECH_100405A : 17		R61360
Chloride	4	mg/L		1		E300.0	04/06/10 23:35 / hm		IC101-H_100405A : 127		R61386
Sulfate	53	mg/L		1		E300.0	04/06/10 23:35 / hm		IC101-H_100405A : 127		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Calcium	29	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Copper	0.018	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Magnesium	7	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Manganese	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Potassium	2	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Selenium	ND	mg/L		0.001		E200.8	04/14/10 02:55 / dck		ICPMS204-B_100414A : 23		R61581
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389

Report Definitions: RL - Analyte reporting limit.

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-302
Lab ID: H10040032-003
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 09:20 Date Received: 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	13	mg/L		1		E200.7	04/06/10 13:20 / sld		ICP1-HE_100406A : 54		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:50 / sld		ICP1-HE_100407B : 17		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389
Zinc	ND	mg/L		0.01		E200.8	04/06/10 19:24 / dck		ICPMS204-B_100406A : 62		R61389

Report Definitions: RL - Analyte reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-303
Lab ID: H10040032-004
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 11:00 **Date Received:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	7.8	s.u.		0.1		A4500-H B	04/05/10 18:07 / hm		MAN-TECH_100405A : 22		R61360
Conductivity	474	umhos/cm		1		A2510 B	04/05/10 18:07 / hm		MAN-TECH_100405A : 21		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:20 / hm	04/07/10 14:42 J-124 (14410200)_100407A : 9			8426
Solids, Total Dissolved TDS @ 180 C	347	mg/L		10		A2540 C	04/07/10 15:08 / hm	04/07/10 14:38 J-124 (14410200)_100407B : 9			8424
INORGANICS											
Alkalinity, Total as CaCO3	120	mg/L		1		A2320 B	04/05/10 18:07 / hm		MAN-TECH_100405A : 20		R61360
Bicarbonate as HCO3	140	mg/L		1		A2320 B	04/05/10 18:07 / hm		MAN-TECH_100405A : 20		R61360
Chloride	7	mg/L		1		E300.0	04/06/10 23:52 / hm		IC101-H_100405A : 128		R61386
Sulfate	120	mg/L		1		E300.0	04/06/10 23:52 / hm		IC101-H_100405A : 128		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Antimony	ND	mg/L		0.003		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Barium	ND	mg/L		0.1		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Calcium	57	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Chromium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Copper	0.002	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Lead	ND	mg/L		0.005		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Magnesium	12	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Manganese	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Mercury	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Nickel	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Potassium	5	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Selenium	0.003	mg/L		0.001		E200.8	04/14/10 03:00 / dck		ICPMS204-B_100414A : 24		R61581
Silver	ND	mg/L		0.005		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389

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Definitions:

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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-303
Lab ID: H10040032-004
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 11:00 **DateReceived:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	17	mg/L		1		E200.7	04/06/10 13:23 / sld		ICP1-HE_100406A : 55		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:53 / sld		ICP1-HE_100407B : 18		R61433
Thallium	ND	mg/L		0.001		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389
Zinc	0.02	mg/L		0.01		E200.8	04/06/10 19:29 / dck		ICPMS204-B_100406A : 63		R61389

Report RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-304
Lab ID: H10040032-005
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 11:30 **Date Received:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
PHYSICAL PROPERTIES											
pH	5.4	s.u.		0.1		A4500-H B	04/05/10 18:12 / hm		MAN-TECH_100405A : 25		R61360
Conductivity	ND	umhos/cm		1		A2510 B	04/05/10 18:12 / hm		MAN-TECH_100405A : 24		R61360
Solids, Total Suspended TSS @ 105 C	ND	mg/L		10		A2540 D	04/07/10 15:21 / hm	04/07/10 14:42 -124 (14410200)_100407A : 10			8426
Solids, Total Dissolved TDS @ 180 C	ND	mg/L		10		A2540 C	04/07/10 15:08 / hm	04/07/10 14:38 -124 (14410200)_100407B : 10			8424
INORGANICS											
Alkalinity, Total as CaCO3	ND	mg/L		1		A2320 B	04/05/10 18:12 / hm		MAN-TECH_100405A : 23		R61360
Bicarbonate as HCO3	ND	mg/L		1		A2320 B	04/05/10 18:12 / hm		MAN-TECH_100405A : 23		R61360
Chloride	ND	mg/L		1		E300.0	04/07/10 00:08 / hm		IC101-H_100405A : 129		R61386
Sulfate	ND	mg/L		1		E300.0	04/07/10 00:08 / hm		IC101-H_100405A : 129		R61386
METALS, DISSOLVED											
Aluminum	ND	mg/L		0.1		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Antimony	ND	mg/L		0.003		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Arsenic	ND	mg/L		0.002		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Barium	ND	mg/L		0.1		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Beryllium	ND	mg/L		0.001		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Cadmium	ND	mg/L		0.001		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Calcium	ND	mg/L		1		E200.7	04/06/10 13:26 / sld		ICP1-HE_100406A : 56		R61387
Chromium	ND	mg/L		0.001		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Cobalt	ND	mg/L		0.01		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Copper	ND	mg/L		0.001		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Gold	ND	mg/L		0.01		E200.7	04/06/10 13:26 / sld		ICP1-HE_100406A : 56		R61387
Iron	ND	mg/L		0.02		E200.7	04/06/10 13:26 / sld		ICP1-HE_100406A : 56		R61387
Lead	ND	mg/L		0.005		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Magnesium	ND	mg/L		1		E200.7	04/06/10 13:26 / sld		ICP1-HE_100406A : 56		R61387
Manganese	ND	mg/L		0.01		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Mercury	ND	mg/L		0.001		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Nickel	ND	mg/L		0.01		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Potassium	ND	mg/L		1		E200.7	04/06/10 13:26 / sld		ICP1-HE_100406A : 56		R61387
Selenium	ND	mg/L		0.001		E200.8	04/08/10 19:28 / dck		ICPMS204-B_100408A : 88		R61467
Silver	ND	mg/L		0.005		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Client: Montana Environmental Custodial Trust
Client Sample ID EHR-0410-304
Lab ID: H10040032-005
Matrix: Aqueous

Project: Long-Term RI/FS Residential Well Sampling-Apr 2010
Collection Date: 04/02/10 11:30 **DateReceived:** 04/02/10
Report Date: 04/15/10

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By	Prep Date	RunID	Run Order	BatchID
METALS, DISSOLVED											
Sodium	ND	mg/L		1		E200.7	04/06/10 13:26 / sld		ICP1-HE_100406A : 56		R61387
Tellurium	ND	mg/L		0.1		E200.7	04/07/10 16:56 / sld		ICP1-HE_100407B : 19		R61433
Thallium	ND	mg/L		0.001		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Vanadium	ND	mg/L		0.01		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389
Zinc	ND	mg/L		0.01		E200.8	04/07/10 09:48 / dck		ICPMS204-B_100406A : 79		R61389

Report RL - Analyte reporting limit.
Definitions:

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: 8424

Date: 15-Apr-10

Run ID :Run Order: ACCU-124 (14410200)_100407B: 1 SampType: Method Blank Sample ID: MB-8424 Method: A2540 C
Analysis Date: 04/07/10 15:04 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 1 1
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: ACCU-124 (14410200)_100407B: 2 SampType: Laboratory Control Sample Sample ID: LCS-8424 Method: A2540 C
Analysis Date: 04/07/10 15:05 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 2020 10 2000 1 101 90 110
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: ACCU-124 (14410200)_100407B: 6 SampType: Sample Matrix Spike Sample ID: H10040032-002AMS Method: A2540 C
Analysis Date: 04/07/10 15:06 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 2160 10 2000 196 98 80 120
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: ACCU-124 (14410200)_100407B: 8 SampType: Sample Duplicate Sample ID: H10040032-003ADUP Method: A2540 C
Analysis Date: 04/07/10 15:07 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 193 10 195 1 5
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: ACCU-124 (14410200)_100407B: 12 SampType: Sample Matrix Spike Sample ID: H10040044-001AMS Method: A2540 C
Analysis Date: 04/07/10 15:09 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 C
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Dissolved TDS @ 180 C 2380 10 2000 414 98 80 120
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: 8426**

Date: 15-Apr-10

Run ID :Run Order: ACCU-124 (14410200)_100407A: 1 SampType: Method Blank Sample ID: MB-8426 Method: A2540 D
Analysis Date: 04/07/10 15:18 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 D
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Suspended TSS @ 105 C ND 1
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: ACCU-124 (14410200)_100407A: 2 SampType: Laboratory Control Sample Sample ID: LCS-8426 Method: A2540 D
Analysis Date: 04/07/10 15:18 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 D
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Suspended TSS @ 105 C 1680 10 2000 84 70 130
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: ACCU-124 (14410200)_100407A: 8 SampType: Sample Duplicate Sample ID: H10040032-003ADUP Method: A2540 D
Analysis Date: 04/07/10 15:20 Units: mg/L Prep Info: Prep Date: 4/7/2010 Prep Method: A2540 D
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Solids, Total Suspended TSS @ 105 C 1.00 10 5
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61360

Date: 15-Apr-10

Run ID :Run Order: **MAN-TECH_100405A: 3** SampType: **Method Blank** Sample ID: **MBLK** Method: **A2320 B**
Analysis Date: **04/05/10 17:07** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **1** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total as CaCO3 ND 0.9
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **MAN-TECH_100405A: 5** SampType: **Laboratory Control Sample** Sample ID: **LCS** Method: **A2320 B**
Analysis Date: **04/05/10 17:16** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **1** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total as CaCO3 590 4.0 600 98 90 110
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **MAN-TECH_100405A: 9** SampType: **Sample Duplicate** Sample ID: **H10040032-001ADUP** Method: **A2320 B**
Analysis Date: **04/05/10 17:30** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **2** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total as CaCO3 120 4.0 121.2 0.1 20
Bicarbonate as HCO3 150 4.0 147.9 0.1 20
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **MAN-TECH_100405A: 15** SampType: **Sample Matrix Spike** Sample ID: **H10040032-002AMS** Method: **A2320 B**
Analysis Date: **04/05/10 17:45** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **1** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total as CaCO3 730 4.0 600 78.24 108 90 110
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **MAN-TECH_100405A: 16** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10040032-002AMSD** Method: **A2320 B**
Analysis Date: **04/05/10 17:53** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **1** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Alkalinity, Total as CaCO3 720 4.0 600 78.24 107 90 110 725 0.5 20
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61360**

Date: 15-Apr-10

Run ID :Run Order: MAN-TECH_100405A: 1	SampType: Initial Calibration Verification Standard	Sample ID: ICV	Method: A2510 B
Analysis Date: 04/05/10 16:58	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	716 1.0 717.5	100 90 110	
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A			

Run ID :Run Order: MAN-TECH_100405A: 4	SampType: Laboratory Control Sample	Sample ID: LCS	Method: A2510 B
Analysis Date: 04/05/10 17:09	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	1420 1.0 1412	101 90 110	
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A			

Run ID :Run Order: MAN-TECH_100405A: 10	SampType: Sample Duplicate	Sample ID: H10040032-001ADUP	Method: A2510 B
Analysis Date: 04/05/10 17:30	Units: umhos/cm	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Conductivity	751 1.0	749.9 0.1 10	
Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A			

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61360

Date: 15-Apr-10

Run ID :Run Order: **MAN-TECH_100405A: 2** SampType: Initial Calibration Verification Standard Sample ID: ICV Method: **A4500-H B**
Analysis Date: 04/05/10 17:01 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
pH 6.98 0.10 7 100 99 101
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **MAN-TECH_100405A: 11** SampType: Sample Duplicate Sample ID: **H10040032-001ADUP** Method: **A4500-H B**
Analysis Date: 04/05/10 17:30 Units: s.u. Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
pH 7.69 0.10 7.68 0.1 2
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **MAN-TECH_100405A: 39** SampType: Continuing Calibration Verification Standard Sample ID: CCV Method: **A4500-H B**
Analysis Date: 04/05/10 18:52 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
pH 7.01 0.10 7 100 99 101
Associated samples:

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61386

Date: 15-Apr-10

Run ID :Run Order: IC101-H_100405A: 1	SampType: Initial Calibration Verification Standard				Sample ID: ICV040510-12				Method: E300.0			
Analysis Date: 04/05/10 13:06	Units: mg/L				Prep Info:	Prep Date:			Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	12	1.0	12.5		94	90	110					
Sulfate	51	1.0	50		103	90	110					

Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: IC101-H_100405A: 2	SampType: Method Blank				Sample ID: ICB040510-13				Method: E300.0			
Analysis Date: 04/05/10 13:23	Units: mg/L				Prep Info:	Prep Date:			Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	ND	0.05										
Sulfate	ND	0.1										

Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: IC101-H_100405A: 3	SampType: Laboratory Fortified Blank				Sample ID: LFB040510-14				Method: E300.0			
Analysis Date: 04/05/10 13:39	Units: mg/L				Prep Info:	Prep Date:			Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	23	1.0	25		92	90	110					
Sulfate	49	1.0	50		99	90	110					

Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: IC101-H_100405A: 119	SampType: Continuing Calibration Verification Standard				Sample ID: CCV040510-128				Method: E300.0			
Analysis Date: 04/06/10 21:24	Units: mg/L				Prep Info:	Prep Date:			Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	24	1.0	25		98	90	110					
Sulfate	52	1.0	50		103	90	110					

Associated samples: H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A

Run ID :Run Order: IC101-H_100405A: 125	SampType: Sample Matrix Spike				Sample ID: H10040032-002AMS				Method: E300.0			
Analysis Date: 04/06/10 23:02	Units: mg/L				Prep Info:	Prep Date:			Prep Method:			
Analytes 2	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Chloride	29	1.0	25	4.42	99	90	110					
Sulfate	110	1.0	50	52.92	107	90	110					

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits N - Analyte concentration was not sufficiently high to calculate RPD
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin

ANALYTICAL QC SUMMARY REPORT

Date: 15-Apr-10

BatchID: R61386

Run ID :Run Order: **IC101-H_100405A: 125** SampType: **Sample Matrix Spike** Sample ID: **H10040032-002AMS** Method: **E300.0**
Analysis Date: **04/06/10 23:02** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **2** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Run ID :Run Order: **IC101-H_100405A: 126** SampType: **Sample Matrix Spike Duplicate** Sample ID: **H10040032-002AMSD** Method: **E300.0**
Analysis Date: **04/06/10 23:19** Units: **mg/L** Prep Info: Prep Date: Prep Method:
Analytes **2** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Chloride 29 1.0 25 4.42 **98** 90 110 29.25 **0.9** 20
Sulfate 110 1.0 50 52.92 **108** 90 110 106.5 **0.3** 20
Associated samples: **H10040032-001A; H10040032-002A; H10040032-003A; H10040032-004A; H10040032-005A**

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61387

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100406A: 5		SampType: Initial Calibration Verification Standard				Sample ID: ICV		Method: E200.7			
Analysis Date: 04/06/10 10:45		Units: mg/L		Prep Info:		Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	41.6	1.0	40		104	95	105				
Gold	1.94	0.10	2		97	95	105				
Iron	3.97	0.030	4		99	95	105				
Magnesium	39.8	1.0	40		99	95	105				
Potassium	38.6	1.0	40		96	95	105				
Sodium	41.1	1.0	40		103	95	105				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 7			SampType: Continuing Calibration Verification Standard				Sample ID: CCV-1		Method: E200.7		
Analysis Date: 04/06/10 10:54		Units: mg/L		Prep Info:		Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.6	1.0	25		98	95	105				
Gold	2.42	0.10	2.5		97	95	105				
Iron	2.50	0.030	2.5		100	95	105				
Magnesium	24.6	1.0	25		98	95	105				
Potassium	24.6	1.0	25		99	95	105				
Sodium	25.7	1.0	25		103	95	105				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 10			SampType: Interference Check Sample A			Sample ID: ICSA			Method: E200.7		
Analysis Date: 04/06/10 11:04		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	451	1.0	500		90	80	120				
Gold	0.0207	0.10				0	0				
Iron	177	0.030	200		89	80	120				
Magnesium	518	1.0	500		104	80	120				
Potassium	0.0146	1.0				0	0				
Sodium	0.0421	1.0				0	0				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61387

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100406A: 11	SampType: Interference Check Sample AB				Sample ID: ICSAB			Method: E200.7			
Analysis Date: 04/06/10 11:07	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	447	1.0	500		89	80	120				
Gold	0.977	0.10	1		98	80	120				
Iron	178	0.030	200		89	80	120				
Magnesium	529	1.0	500		106	80	120				
Potassium	20.2	1.0	20		101	80	120				
Sodium	20.5	1.0	20		103	80	120				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 14	SampType: Method Blank				Sample ID: ICB			Method: E200.7			
Analysis Date: 04/06/10 11:17	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	0.001									
Gold	ND	0.002									
Iron	ND	0.0003									
Magnesium	0.006	0.001									
Potassium	0.02	0.0002									
Sodium	0.02	0.01									

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 15	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.7			
Analysis Date: 04/06/10 11:20	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	10.5	1.0	10		105	85	115				
Gold	0.506	0.10	0.5		101	85	115				
Iron	1.06	0.030	1		105	85	115				
Magnesium	10.4	1.0	10		104	85	115				
Potassium	9.94	1.0	10		99	85	115				
Sodium	10.4	1.0	10		104	85	115				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61387

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100406A: 41	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.7			
Analysis Date: 04/06/10 12:40	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 5	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gold	0.475	0.10	0.5		95	85	115				
Iron	0.981	0.030	1		98	85	115				
Magnesium	9.93	1.0	10		99	85	115				
Potassium	10.0	1.0	10		100	85	115				
Sodium	10.5	1.0	10		105	85	115				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 48	SampType: Continuing Calibration Verification Standard				Sample ID: CCV			Method: E200.7			
Analysis Date: 04/06/10 13:02	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	24.2	1.0	25		97	90	110				
Gold	2.34	0.10	2.5		94	90	110				
Iron	2.39	0.030	2.5		96	90	110				
Magnesium	24.1	1.0	25		96	90	110				
Potassium	24.2	1.0	25		97	90	110				
Sodium	25.5	1.0	25		102	90	110				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 57	SampType: Sample Matrix Spike				Sample ID: H10040032-005BMS2			Method: E200.7			
Analysis Date: 04/06/10 13:29	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.3	1.0	20	0.1743	101	70	130				
Gold	0.948	0.010	1		95	70	130				
Iron	2.02	0.030	2		101	70	130				
Magnesium	19.7	1.0	20	0.0323	98	70	130				
Potassium	19.9	1.0	20		100	70	130				
Sodium	20.1	1.0	20	0.1319	100	70	130				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61387

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100406A: 58	SampType: Sample Matrix Spike Duplicate				Sample ID: H10040032-005BMSD2				Method: E200.7		
Analysis Date: 04/06/10 13:32	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20.0	1.0	20	0.1743	99	70	130	20.3	1.5	20	
Gold	0.915	0.010	1		92	70	130	0.948	3.5	20	
Iron	1.94	0.030	2		97	70	130	2.022	4.1	20	
Magnesium	19.4	1.0	20	0.0323	97	70	130	19.7	1.7	20	
Potassium	20.0	1.0	20		100	70	130	19.94	0.4	20	
Sodium	20.2	1.0	20	0.1319	100	70	130	20.14	0.1	20	

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 77	SampType: Laboratory Fortified Blank				Sample ID: LFB				Method: E200.7		
Analysis Date: 04/06/10 14:32	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9.78	1.0	10		98	85	115				
Gold	0.444	0.10	0.5		89	85	115				
Iron	0.935	0.030	1		94	85	115				
Magnesium	9.35	1.0	10		94	85	115				
Potassium	9.81	1.0	10		98	85	115				
Sodium	10.1	1.0	10		101	85	115				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100406A: 89	SampType: Interference Check Sample A				Sample ID: ICSA				Method: E200.7		
Analysis Date: 04/06/10 15:09	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	442	1.0	500		88	80	120				
Gold	0.0213	0.10				0	0				
Iron	176	0.030	200		88	80	120				
Magnesium	533	1.0	500		107	80	120				
Potassium	0.0187	1.0				0	0				
Sodium	0.0497	1.0				0	0				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61387**

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100406A: 90		SampType: Interference Check Sample AB				Sample ID: ICSAB			Method: E200.7		
Analysis Date: 04/06/10 15:12		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 6	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	504	1.0	500		101	80	120				
Gold	0.992	0.10	1		99	80	120				
Iron	185	0.030	200		92	80	120				
Magnesium	549	1.0	500		110	80	120				
Potassium	20.0	1.0	20		100	80	120				
Sodium	21.1	1.0	20		106	80	120				

Associated samples: **H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B**

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61389

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 8	SampType: Initial Calibration Verification Standard				Sample ID: QCS STD			Method: E200.8			
Analysis Date: 04/06/10 14:42	Units: mg/L				Prep Info: Prep Date:			Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.255	0.10	0.25		102	90	110				
Antimony	0.0503	0.050	0.05		101	90	110				
Arsenic	0.0489	0.0050	0.05		98	90	110				
Barium	0.0508	0.10	0.05		102	90	110				
Beryllium	0.0256	0.0010	0.025		102	90	110				
Cadmium	0.0260	0.0010	0.025		104	90	110				
Chromium	0.0495	0.010	0.05		99	90	110				
Cobalt	0.0505	0.010	0.05		101	90	110				
Copper	0.0506	0.010	0.05		101	90	110				
Lead	0.0497	0.010	0.05		99	90	110				
Manganese	0.252	0.010	0.25		101	90	110				
Mercury	0.00197	0.0010	0.002		99	90	110				
Nickel	0.0496	0.010	0.05		99	90	110				
Silver	0.0266	0.0050	0.025		106	90	110				
Thallium	0.0499	0.10	0.05		100	90	110				
Vanadium	0.0490	0.10	0.05		98	90	110				
Zinc	0.0507	0.010	0.05		101	90	110				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 9	SampType: Interference Check Sample A				Sample ID: ICSA			Method: E200.8			
Analysis Date: 04/06/10 14:42	Units: mg/L				Prep Info: Prep Date:			Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	41.8	0.10	40		105	70	130				
Antimony	0.000406	0.050									
Arsenic	0.000237	0.0050									
Barium	-0.000425	0.10									
Beryllium	7.00E-06	0.0010									
Cadmium	0.000776	0.0010									
Chromium	0.000823	0.010									
Cobalt	0.00177	0.010									
Copper	0.00343	0.010									
Lead	0.000119	0.010									
Manganese	0.00226	0.010									

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Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61389

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 9			SampType: Interference Check Sample A			Sample ID: ICSA			Method: E200.8			
Analysis Date: 04/06/10 14:47			Units: mg/L		Prep Info: Prep Date:			Prep Method:				
Analytes	17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		2.80E-05	0.0010									
Nickel		0.00158	0.010									
Silver		0.000217	0.0050									
Thallium		4.90E-05	0.10									
Vanadium		7.80E-05	0.10									
Zinc		0.00204	0.010									

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 10			SampType: Interference Check Sample AB			Sample ID: ICSAB			Method: E200.8		
Analysis Date: 04/06/10 14:53		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	42.2	0.10	40		106	70	130				
Antimony	0.000202	0.050				0	0				
Arsenic	0.0110	0.0050	0.01		109	70	130				
Barium	-0.000403	0.10				0	0				
Beryllium	2.00E-06	0.0010				0	0				
Cadmium	0.0111	0.0010	0.01		110	70	130				
Chromium	0.0217	0.010	0.02		108	70	130				
Cobalt	0.0231	0.010	0.02		115	70	130				
Copper	0.0234	0.010	0.02		117	70	130				
Lead	9.70E-05	0.010				0	0				
Manganese	0.0239	0.010	0.02		119	70	130				
Mercury	9.00E-06	0.0010				0	0				
Nickel	0.0229	0.010	0.02		114	70	130				
Silver	0.0180	0.0050	0.02		90	70	130				
Thallium	1.60E-05	0.10				0	0				
Vanadium	0.0211	0.10	0.02		105	70	130				
Zinc	0.0130	0.010	0.01		129	70	130				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61389**

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 16	SampType: Method Blank				Sample ID: ICB			Method: E200.8			
Analysis Date: 04/06/10 15:24	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	0.0002									
Antimony	2E-05	1E-05									
Arsenic	ND	5E-05									
Barium	ND	2E-05									
Beryllium	ND	1E-05									
Cadmium	ND	1E-05									
Chromium	ND	5E-05									
Cobalt	ND	1E-05									
Copper	ND	4E-05									
Lead	ND	1E-05									
Manganese	8E-05	2E-05									
Mercury	ND	5E-06									
Nickel	ND	5E-05									
Silver	0.0004	2E-05									
Thallium	ND	2E-05									
Vanadium	ND	3E-05									
Zinc	0.002	0.0004									

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 17	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.8			
Analysis Date: 04/06/10 15:29	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0505	0.10	0.05		101	85	115				
Antimony	0.0500	0.050	0.05	0.0000245	100	85	115				
Arsenic	0.0487	0.0050	0.05		97	85	115				
Barium	0.0506	0.10	0.05		101	85	115				
Beryllium	0.0504	0.0010	0.05		101	85	115				
Cadmium	0.0495	0.0010	0.05		99	85	115				
Chromium	0.0497	0.010	0.05		99	85	115				
Cobalt	0.0496	0.010	0.05		99	85	115				
Copper	0.0482	0.010	0.05		96	85	115				
Lead	0.0503	0.010	0.05		101	85	115				
Manganese	0.0506	0.010	0.05	0.0000804	101	85	115				

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61389

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 17	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.8			
Analysis Date: 04/06/10 15:29	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.000922	0.0010	0.001		92	85	115				
Nickel	0.0493	0.010	0.05		99	85	115				
Silver	0.0193	0.0050	0.02	0.0003821	94	85	115				
Thallium	0.0506	0.10	0.05		101	85	115				
Vanadium	0.0496	0.10	0.05		99	85	115				
Zinc	0.0508	0.010	0.05	0.001725	98	85	115				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 55	SampType: Sample Matrix Spike				Sample ID: H10030377-001BMS			Method: E200.8			
Analysis Date: 04/06/10 18:48	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0518	0.10	0.05	0.001555	101	70	130				
Antimony	0.0512	0.0030	0.05	0.0001415	102	70	130				
Arsenic	0.0512	0.0010	0.05	0.002229	98	70	130				
Barium	0.141	0.10	0.05	0.09326	96	70	130				
Beryllium	0.0514	0.0010	0.05		103	70	130				
Cadmium	0.0488	0.0010	0.05		98	70	130				
Chromium	0.0499	0.010	0.05	0.001681	96	70	130				
Cobalt	0.0477	0.010	0.05	0.0001325	95	70	130				
Copper	0.0651	0.010	0.05	0.02007	90	70	130				
Lead	0.0516	0.0010	0.05	0.001956	99	70	130				
Manganese	0.0505	0.010	0.05	0.0004121	100	70	130				
Mercury	0.000920	0.00020	0.001	0.0000116	91	70	130				
Nickel	0.0475	0.010	0.05	0.0000877	95	70	130				
Silver	0.0171	0.0050	0.02		85	70	130				
Thallium	0.0497	0.0010	0.05		99	70	130				
Vanadium	0.0503	0.10	0.05	0.002013	97	70	130				
Zinc	0.0961	0.010	0.05	0.05085	91	70	130				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61389**

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 56			SampType: Sample Matrix Spike Duplicate			Sample ID: H10030377-001BMSD			Method: E200.8		
Analysis Date: 04/06/10 18:53		Units: mg/L		Prep Info:		Prep Date:		Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.0518	0.10	0.05	0.001555	101	70	130	0.05182		20	
Antimony	0.0510	0.0030	0.05	0.0001415	102	70	130	0.05116	0.4	20	
Arsenic	0.0513	0.0010	0.05	0.002229	98	70	130	0.05118	0.3	20	
Barium	0.140	0.10	0.05	0.09326	94	70	130	0.1411	0.5	20	
Beryllium	0.0510	0.0010	0.05		102	70	130	0.05136	0.7	20	
Cadmium	0.0489	0.0010	0.05		98	70	130	0.04879	0.2	20	
Chromium	0.0499	0.010	0.05	0.001681	96	70	130	0.04985	0	20	
Cobalt	0.0476	0.010	0.05	0.0001325	95	70	130	0.04772	0.2	20	
Copper	0.0663	0.010	0.05	0.02007	93	70	130	0.06506	1.9	20	
Lead	0.0509	0.0010	0.05	0.001956	98	70	130	0.05162	1.5	20	
Manganese	0.0506	0.010	0.05	0.0004121	100	70	130	0.05046	0.2	20	
Mercury	0.000925	0.00020	0.001	0.0000116	91	70	130	0.00092	0.5	20	
Nickel	0.0474	0.010	0.05	0.0000877	95	70	130	0.04749	0.3	20	
Silver	0.0182	0.0050	0.02		91	70	130	0.01705	6.3	20	
Thallium	0.0488	0.0010	0.05		98	70	130	0.0497	1.8	20	
Vanadium	0.0511	0.10	0.05	0.002013	98	70	130	0.05033		20	
Zinc	0.0976	0.010	0.05	0.05085	94	70	130	0.09611	1.6	20	

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 70			SampType: Interference Check Sample A			Sample ID: ICSA			Method: E200.8		
Analysis Date: 04/07/10 09:02		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	42.6	0.10	40		106	70	130				
Antimony	0.000206	0.050									
Arsenic	0.000209	0.0050									
Barium	-0.000421	0.10									
Beryllium	4.00E-06	0.0010									
Cadmium	0.000583	0.0010									
Chromium	0.000710	0.010									
Cobalt	0.00173	0.010									
Copper	0.00261	0.010									
Lead	6.60E-05	0.010									
Manganese	0.00259	0.010									

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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61389**

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 70			SampType: Interference Check Sample A			Sample ID: ICSA			Method: E200.8		
Analysis Date: 04/07/10 09:02		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2.10E-05	0.0010									
Nickel	0.00118	0.010									
Silver	5.20E-05	0.0050									
Thallium	6.00E-06	0.10									
Vanadium	0.000187	0.10									
Zinc	0.00196	0.010									

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 73		SampType: Interference Check Sample AB				Sample ID: ICSAB			Method: E200.8		
Analysis Date: 04/07/10 09:17		Units: mg/L		Prep Info:			Prep Date:		Prep Method:		
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	41.8	0.10	40		104	70	130				
Antimony	0.000187	0.050				0	0				
Arsenic	0.0107	0.0050	0.01		107	70	130				
Barium	-0.000151	0.10				0	0				
Beryllium	4.00E-06	0.0010				0	0				
Cadmium	0.0108	0.0010	0.01		108	70	130				
Chromium	0.0212	0.010	0.02		106	70	130				
Cobalt	0.0223	0.010	0.02		111	70	130				
Copper	0.0230	0.010	0.02		115	70	130				
Lead	4.80E-05	0.010				0	0				
Manganese	0.0243	0.010	0.02		121	70	130				
Mercury	9.00E-06	0.0010				0	0				
Nickel	0.0218	0.010	0.02		109	70	130				
Silver	0.0183	0.0050	0.02		92	70	130				
Thallium	5.00E-06	0.10				0	0				
Vanadium	0.0210	0.10	0.02		105	70	130				
Zinc	0.0123	0.010	0.01		123	70	130				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61389

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 80	SampType: Sample Matrix Spike				Sample ID: H10040032-005BMS				Method: E200.8		
Analysis Date: 04/07/10 09:54	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.102	0.10	0.1	0.0012	101	70	130				
Antimony	0.102	0.0050	0.1		102	70	130				
Arsenic	0.0961	0.0050	0.1		96	70	130				
Barium	0.102	0.10	0.1		102	70	130				
Beryllium	0.101	0.0010	0.1		101	70	130				
Cadmium	0.0984	0.0010	0.1		98	70	130				
Chromium	0.0950	0.010	0.1		95	70	130				
Cobalt	0.0941	0.010	0.1	0.0001852	94	70	130				
Copper	0.0937	0.010	0.1	0.000275	93	70	130				
Lead	0.101	0.010	0.1		101	70	130				
Manganese	0.100	0.010	0.1	0.0008164	99	70	130				
Mercury	0.00182	0.0010	0.002		91	70	130				
Nickel	0.0925	0.010	0.1		93	70	130				
Silver	0.0373	0.0050	0.04	0.0006242	92	70	130				
Thallium	0.100	0.0050	0.1		100	70	130				
Vanadium	0.0952	0.10	0.1	0.0000566	95	70	130				
Zinc	0.102	0.010	0.1	0.003516	98	70	130				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100406A: 81	SampType: Sample Matrix Spike Duplicate				Sample ID: H10040032-005BMSD				Method: E200.8		
Analysis Date: 04/07/10 09:59	Units: mg/L				Prep Info:	Prep Date:			Prep Method:		
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	0.105	0.10	0.1	0.0012	103	70	130	0.1024	2.1	20	
Antimony	0.103	0.0050	0.1		103	70	130	0.1017	1.2	20	
Arsenic	0.0974	0.0050	0.1		97	70	130	0.0961	1.3	20	
Barium	0.103	0.10	0.1		103	70	130	0.1022	1.1	20	
Beryllium	0.100	0.0010	0.1		100	70	130	0.1005	0.4	20	
Cadmium	0.0994	0.0010	0.1		99	70	130	0.09844	1	20	
Chromium	0.0979	0.010	0.1		98	70	130	0.09502	2.9	20	
Cobalt	0.0963	0.010	0.1	0.0001852	96	70	130	0.09412	2.3	20	
Copper	0.0950	0.010	0.1	0.000275	95	70	130	0.09368	1.4	20	
Lead	0.101	0.010	0.1		101	70	130	0.1007	0.4	20	
Manganese	0.103	0.010	0.1	0.0008164	102	70	130	0.1003	2.5	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61389**

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100406A: 81		SampType: Sample Matrix Spike Duplicate			Sample ID: H10040032-005BMSD			Method: E200.8			
Analysis Date: 04/07/10 09:59		Units: mg/L		Prep Info:		Prep Date:		Prep Method:			
Analytes 17	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00192	0.0010	0.002		96	70	130	0.00182	5.1	20	
Nickel	0.0948	0.010	0.1		95	70	130	0.09252	2.5	20	
Silver	0.0379	0.0050	0.04	0.0006242	93	70	130	0.03732	1.6	20	
Thallium	0.101	0.0050	0.1		101	70	130	0.1	1.2	20	
Vanadium	0.0984	0.10	0.1	0.0000566	98	70	130	0.09522		20	
Zinc	0.105	0.010	0.1	0.003516	102	70	130	0.1015	3.5	20	

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61433

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100407B: 4 SampType: Initial Calibration Verification Standard Sample ID: ICV Method: E200.7
Analysis Date: 04/07/10 16:08 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 2.00 0.10 2 100 95 105
Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 6 SampType: Continuing Calibration Verification Standard Sample ID: CCV-1 Method: E200.7
Analysis Date: 04/07/10 16:15 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 2.56 0.10 2.5 103 95 105
Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 9 SampType: Interference Check Sample A Sample ID: ICSA Method: E200.7
Analysis Date: 04/07/10 16:24 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 0.0341 0.10 0 0
Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 10 SampType: Interference Check Sample AB Sample ID: ICSAB Method: E200.7
Analysis Date: 04/07/10 16:27 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 1.02 0.10 1 102 80 120
Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 11 SampType: Continuing Calibration Verification Standard Sample ID: CCV Method: E200.7
Analysis Date: 04/07/10 16:31 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 2.51 0.10 2.5 100 90 110
Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61433

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100407B: 13 SampType: Method Blank Sample ID: ICB Method: E200.7
Analysis Date: 04/07/10 16:38 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium ND 0.01

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 14 SampType: Laboratory Fortified Blank Sample ID: LFB Method: E200.7
Analysis Date: 04/07/10 16:41 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 0.452 0.10 0.5 90 85 115

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 20 SampType: Sample Matrix Spike Sample ID: H10040032-005BMS2 Method: E200.7
Analysis Date: 04/07/10 16:59 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 0.935 0.025 1 93 70 130

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 21 SampType: Sample Matrix Spike Duplicate Sample ID: H10040032-005BMSD2 Method: E200.7
Analysis Date: 04/07/10 17:02 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 0.874 0.025 1 87 70 130 0.9348 6.7 20

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Run ID :Run Order: ICP1-HE_100407B: 37 SampType: Interference Check Sample A Sample ID: ICSA Method: E200.7
Analysis Date: 04/07/10 17:51 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Tellurium 0.0261 0.10 0 0

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61433**

Date: 15-Apr-10

Run ID :Run Order: ICP1-HE_100407B: 38	SampType: Interference Check Sample AB	Sample ID: ICSAB	Method: E200.7								
Analysis Date: 04/07/10 17:54	Units: mg/L	Prep Info: Prep Date:	Prep Method:								
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tellurium	0.991	0.10	1		99	80	120				

Associated samples: H10040032-001B; H10040032-002B; H10040032-003B; H10040032-004B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61467

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100408A: 8	SampType: Initial Calibration Verification Standard				Sample ID: QCS STD			Method: E200.8			
Analysis Date: 04/08/10 10:43	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.0516	0.0050	0.05		103	90	110				
Associated samples: H10040032-001B; H10040032-005B											

Run ID :Run Order: ICPMS204-B_100408A: 9	SampType: Interference Check Sample A				Sample ID: ICSA			Method: E200.8			
Analysis Date: 04/08/10 10:49	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	7.00E-05	0.0050									
Associated samples: H10040032-001B; H10040032-005B											

Run ID :Run Order: ICPMS204-B_100408A: 10	SampType: Interference Check Sample AB				Sample ID: ICSAB			Method: E200.8			
Analysis Date: 04/08/10 10:54	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.00990	0.0050	0.01		99	70	130				
Associated samples: H10040032-001B; H10040032-005B											

Run ID :Run Order: ICPMS204-B_100408A: 16	SampType: Method Blank				Sample ID: ICB			Method: E200.8			
Analysis Date: 04/08/10 11:26	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	ND	0.001									
Associated samples: H10040032-001B; H10040032-005B											

Run ID :Run Order: ICPMS204-B_100408A: 17	SampType: Laboratory Fortified Blank				Sample ID: LFB			Method: E200.8			
Analysis Date: 04/08/10 11:31	Units: mg/L				Prep Info:	Prep Date:		Prep Method:			
Analytes 1	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	0.0491	0.0050	0.05		98	85	115				
Associated samples: H10040032-001B; H10040032-005B											

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin BatchID: R61467

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100408A: 72:	SampType: Sample Matrix Spike	Sample ID: H10030384-005CMS	Method: E200.8
Analysis Date: 04/08/10 18:05	Units: mg/L	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Selenium	0.0506 0.0050 0.05	101 70 130	

Associated samples: H10040032-001B; H10040032-005B

Run ID :Run Order: ICPMS204-B_100408A: 73:	SampType: Sample Matrix Spike Duplicate	Sample ID: H10030384-005CMSD	Method: E200.8
Analysis Date: 04/08/10 18:11	Units: mg/L	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Selenium	0.0492 0.0050 0.05	98 70 130 0.05055	2.6 20

Associated samples: H10040032-001B; H10040032-005B

Qualifiers: ND - Not Detected at the Reporting Limit
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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61581**

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100414A: 8 SampType: Initial Calibration Verification Standard Sample ID: QCS STD Method: E200.8
Analysis Date: 04/14/10 01:38 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium 0.0508 0.0050 0.05 102 90 110

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Run ID :Run Order: ICPMS204-B_100414A: 9 SampType: Interference Check Sample A Sample ID: ICSA Method: E200.8
Analysis Date: 04/14/10 01:43 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium 0.000281 0.0050

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Run ID :Run Order: ICPMS204-B_100414A: 10 SampType: Interference Check Sample AB Sample ID: ICSAB Method: E200.8
Analysis Date: 04/14/10 01:48 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium 0.0114 0.0050 0.01 114 70 130

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Run ID :Run Order: ICPMS204-B_100414A: 16 SampType: Method Blank Sample ID: ICB Method: E200.8
Analysis Date: 04/14/10 02:19 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium ND 0.001

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Run ID :Run Order: ICPMS204-B_100414A: 17 SampType: Laboratory Fortified Blank Sample ID: LFB Method: E200.8
Analysis Date: 04/14/10 02:24 Units: mg/L Prep Info: Prep Date: Prep Method:
Analytes 1 Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Selenium 0.0477 0.0050 0.05 95 85 115

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Qualifiers: ND - Not Detected at the Reporting Limit
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A - Analyte concentration greater than three times the spike amount



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Client: Montana Environmental Custodial Trust **ANALYTICAL QC SUMMARY REPORT**
Work Order: H10040032
Project: Long-Term RI/FS Residential Well Samplin **BatchID: R61581**

Date: 15-Apr-10

Run ID :Run Order: ICPMS204-B_100414A: 20	SampType: Sample Matrix Spike	Sample ID: H10040032-002BMS	Method: E200.8
Analysis Date: 04/14/10 02:40	Units: mg/L	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Selenium	0.0490 0.0050 0.05	98 70 130	

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Run ID :Run Order: ICPMS204-B_100414A: 21	SampType: Sample Matrix Spike Duplicate	Sample ID: H10040032-002BMSD	Method: E200.8
Analysis Date: 04/14/10 02:45	Units: mg/L	Prep Info: Prep Date:	Prep Method:
Analytes 1	Result PQL SPK value SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val	%RPD RPDLimit Qual
Selenium	0.0490 0.0050 0.05	98 70 130 0.04896	0.1 20

Associated samples: H10040032-002B; H10040032-003B; H10040032-004B

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

N - Analyte concentration was not sufficiently high to calculate RPD
A - Analyte concentration greater than three times the spike amount



Workorder Receipt Checklist



Montana Environmental Custodial Trust

H10040032

Login completed by: Tracy L. Lorash

Date Received: 4/2/2010

Reviewed by: BL2000\wjohnson

Received by: rft

Reviewed Date: 4/6/2010

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	8.0°C From Field		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

None